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MEMOIRS
OF THE
MUSEUM OF COMPARATIVE ZOÖLOGY
AT
HARVARD COLLEGE.

VOL. XXII.

(ATLAS.)

CAMBRIDGE, U.S.A.
PRINTED FOR THE MUSEUM.
1896.

Memoirs of the Museum of Comparative Zoölogy

AT HARVARD COLLEGE.

VOL. XXII.

(ATLAS.)

REPORTS

ON THE

RESULTS OF DREDGING,

UNDER THE SUPERVISION OF

ALEXANDER AGASSIZ,

IN THE GULF OF MEXICO (1877-78), IN THE CARIBBEAN SEA (1878-79), AND
ALONG THE ATLANTIC COAST OF THE UNITED STATES (1880),

BY THE

U. S. COAST SURVEY STEAMER "BLAKE,"

LIEUT. COM. C. D. SIGSBEE, U. S. N., AND COM. J. R. BARTLETT, U. S. N., COMMANDING.

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Superintendents of the U. S. Coast and Geodetic Survey.]

XXXVI.

OCEANIC ICHTHYOLOGY,

A TREATISE ON THE DEEP SEA AND PELAGIC FISHES OF THE WORLD, BASED CHIEFLY
UPON THE COLLECTIONS MADE BY THE STEAMERS "BLAKE," "ALBATROSS,"
AND "FISHHAWK," IN THE NORTHWESTERN ATLANTIC,

WITH AN

ATLAS CONTAINING 417 FIGURES.

BY

GEORGE BROWN GOODE AND TARLETON H. BEAN.

*Published in Connection with the National Museum
and the Smithsonian Institution.*

CAMBRIDGE, U. S. A. :

Printed for the Museum.

SEPTEMBER, 1896.

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OCEANIC ICHTHYOLOGY.

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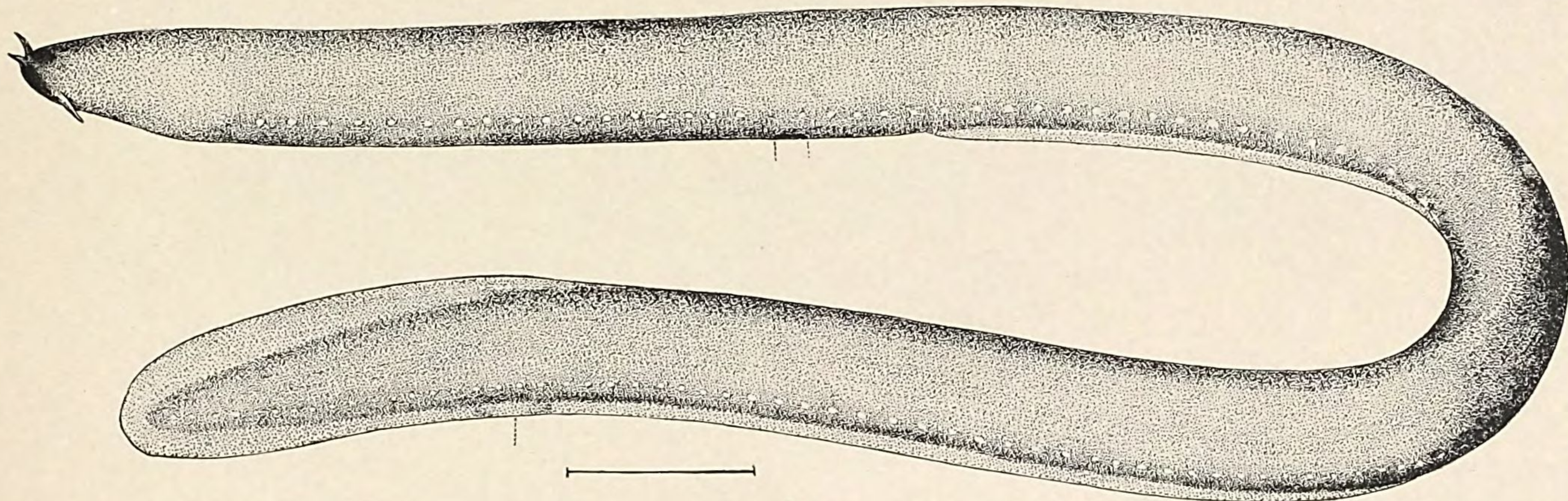
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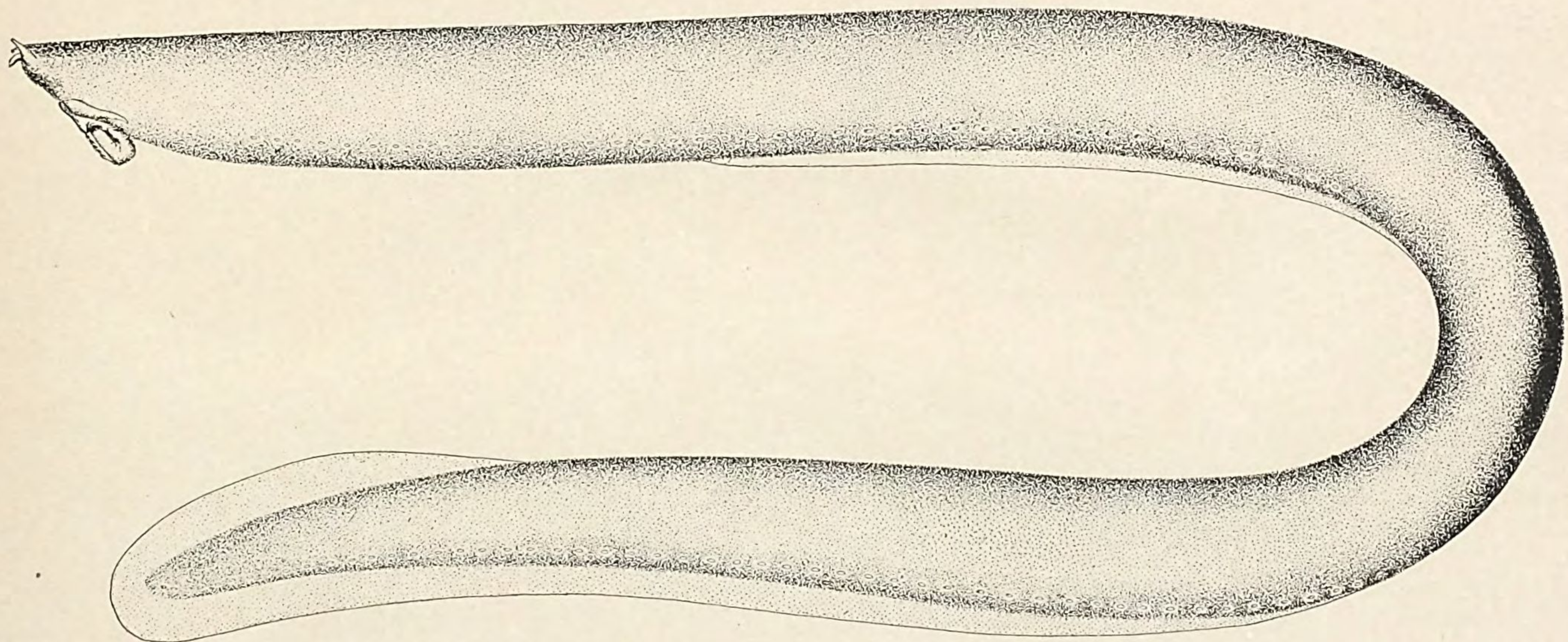
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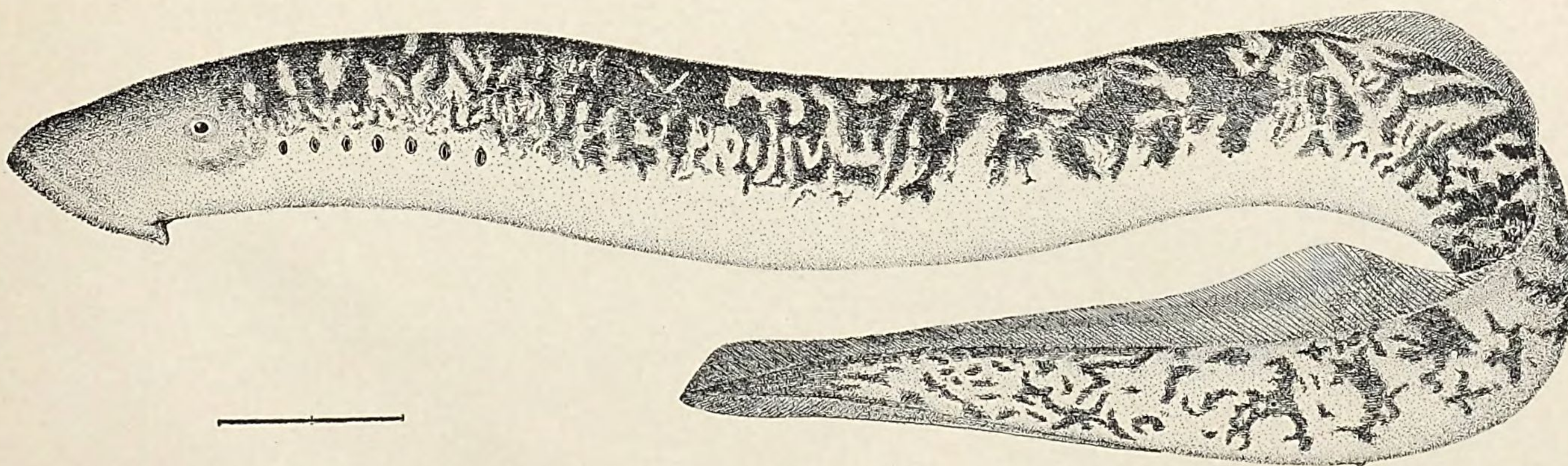
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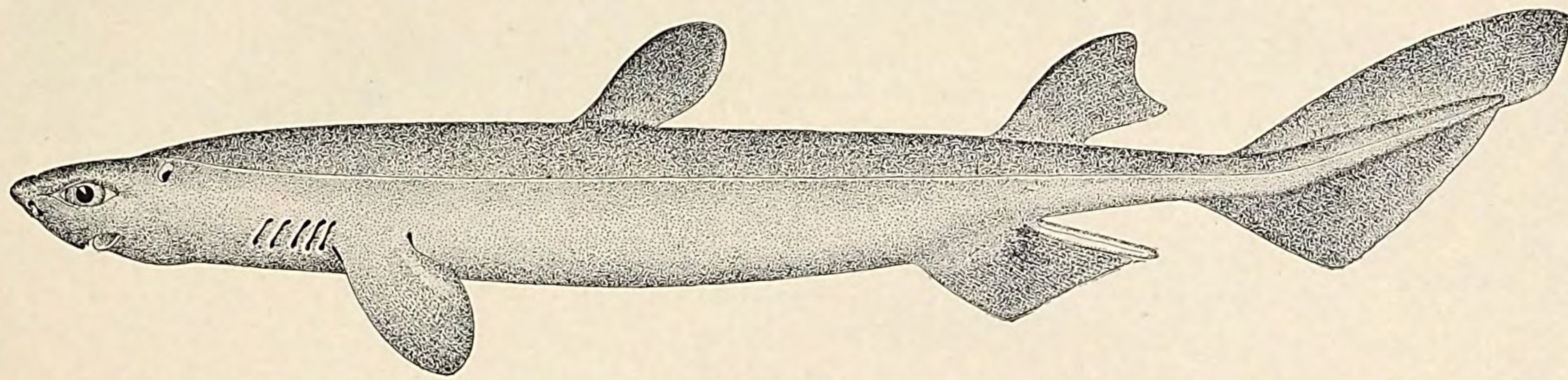


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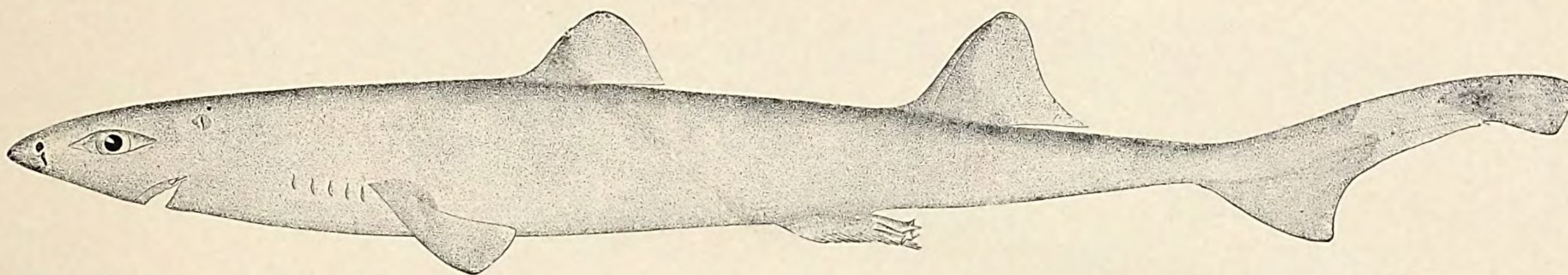
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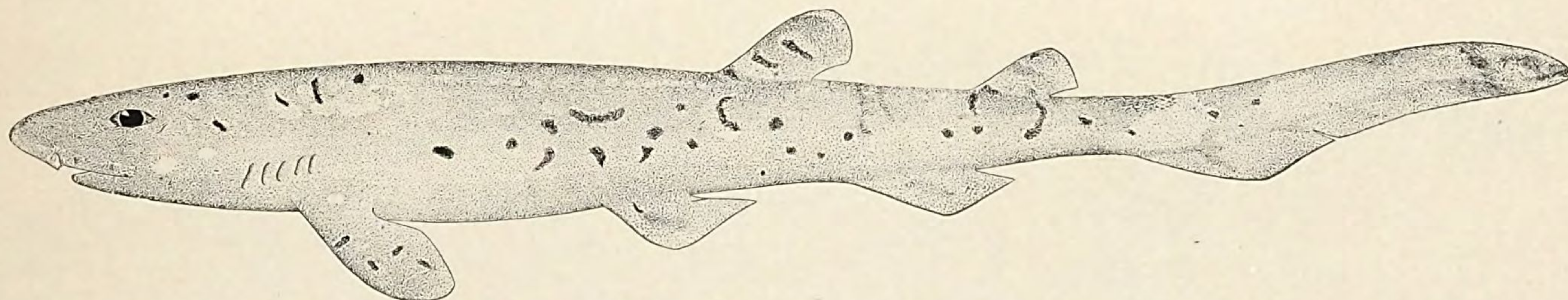
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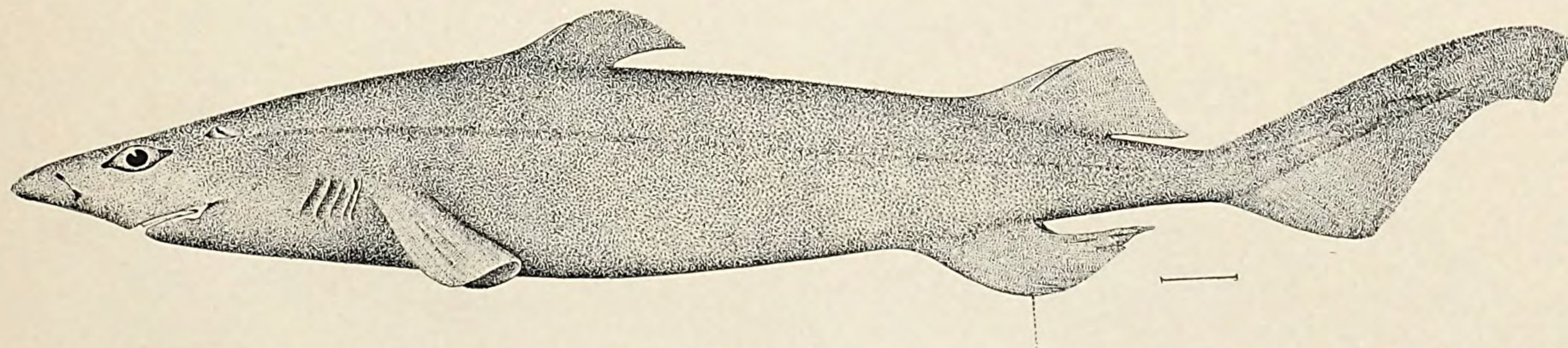
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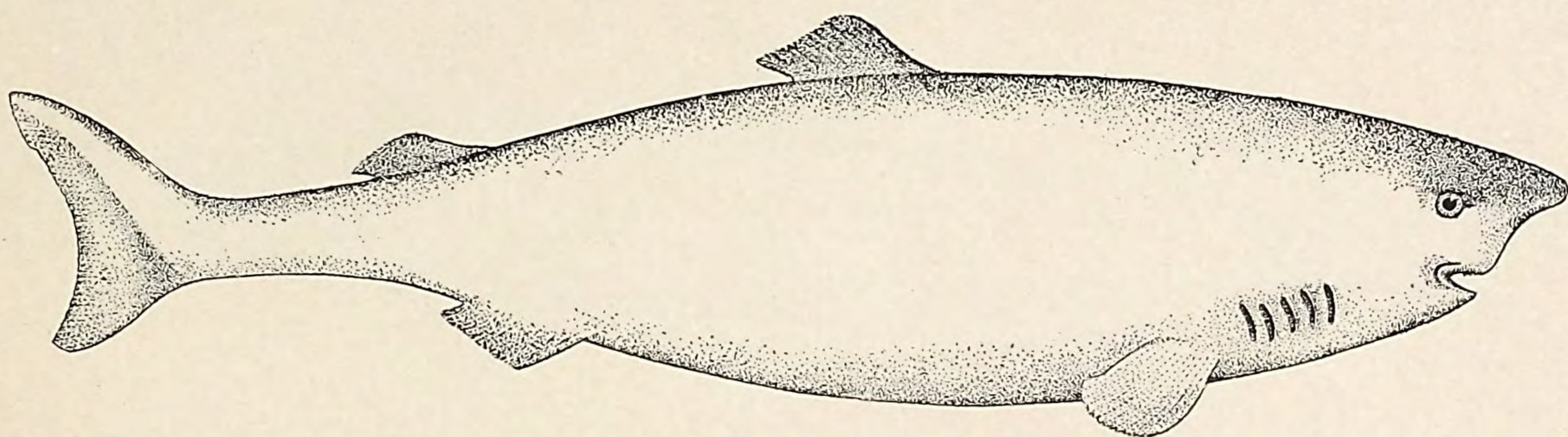
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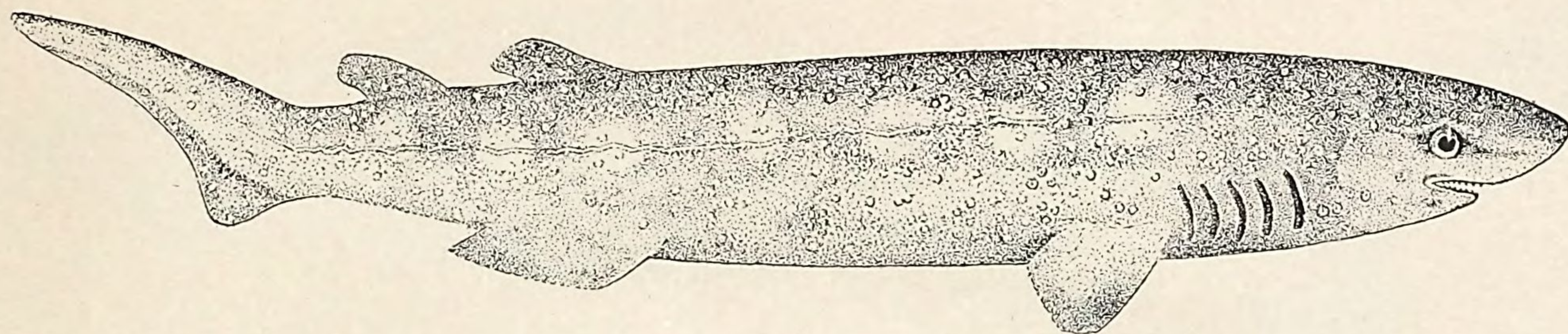
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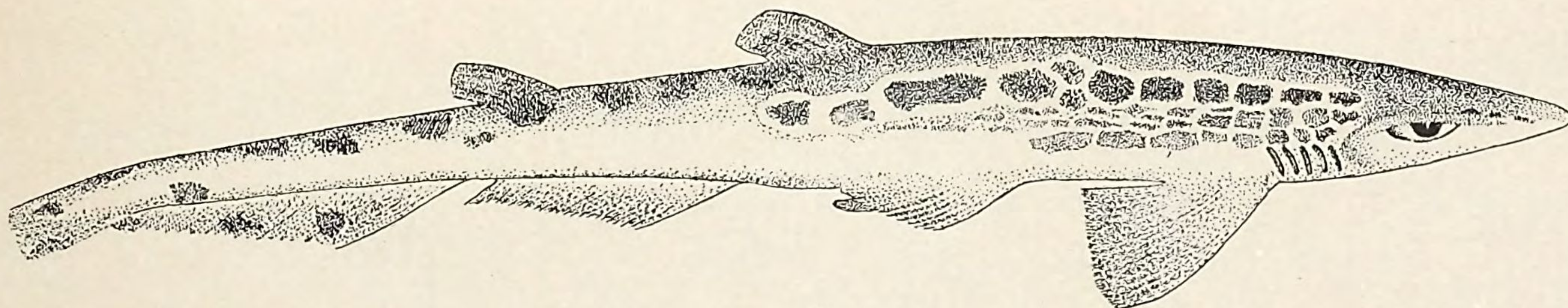
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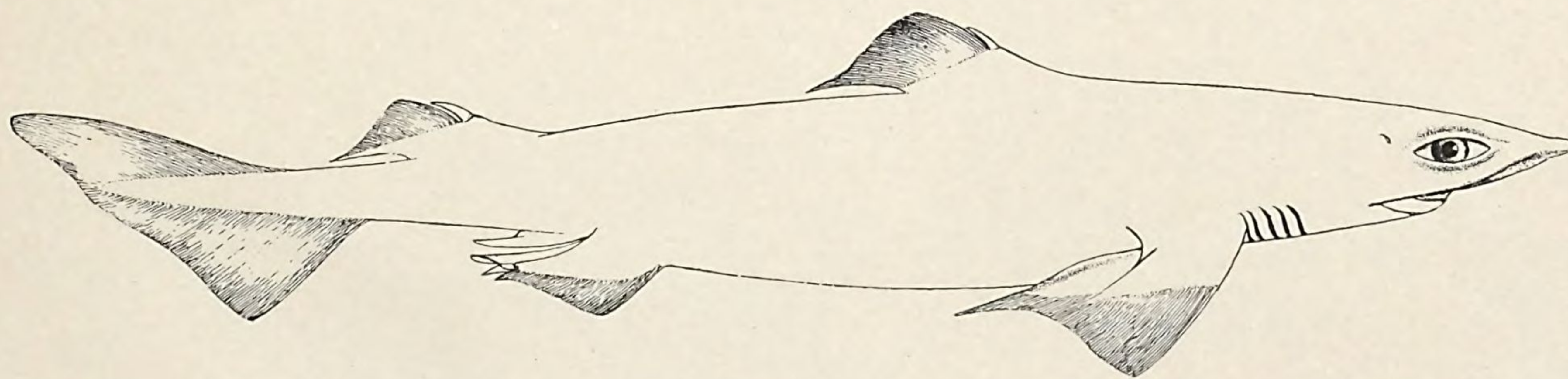
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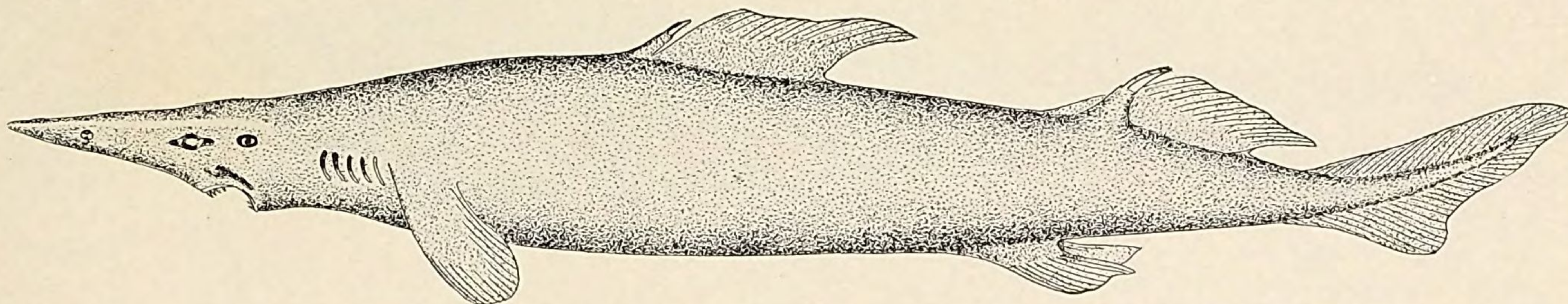
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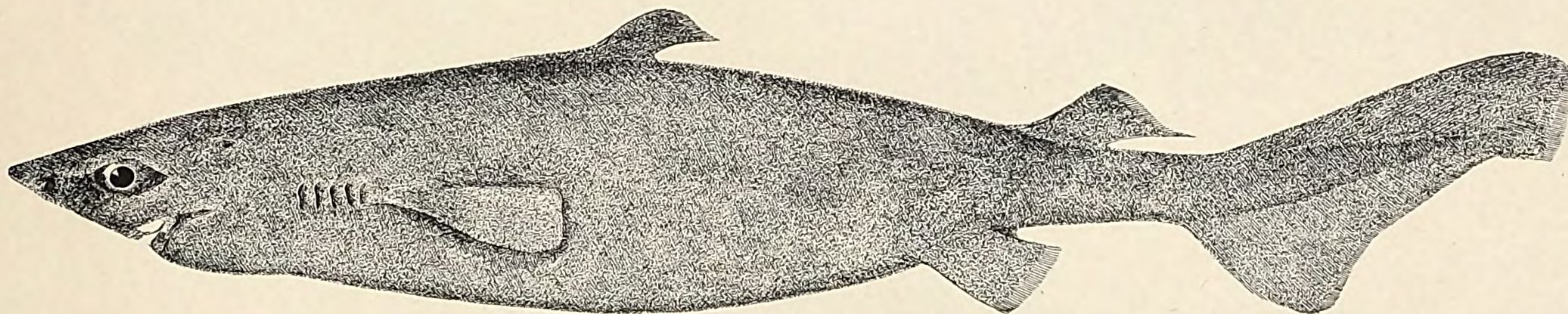
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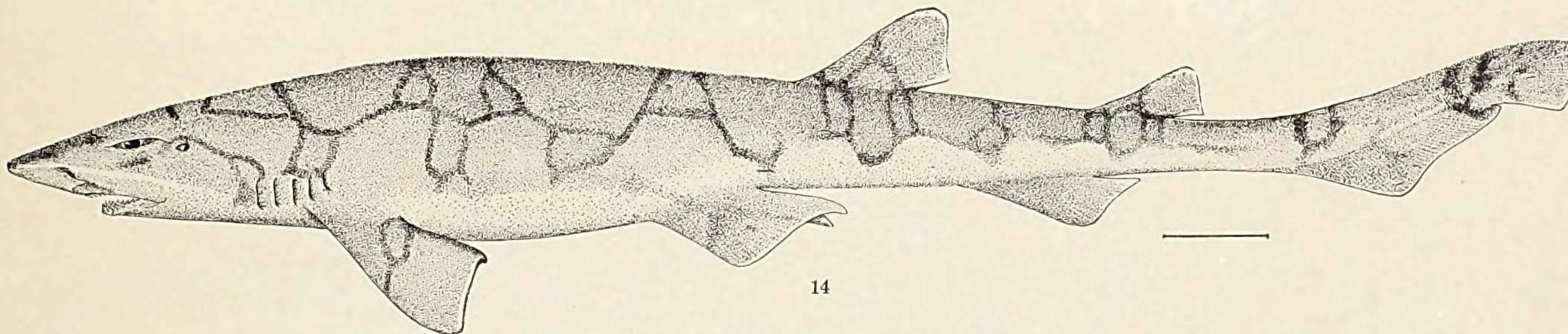
9. ECHINORHINUS SPINOSUS. (p. 8.)
11. CENTROPHORUS GRANULOSUS. (p. 12.)



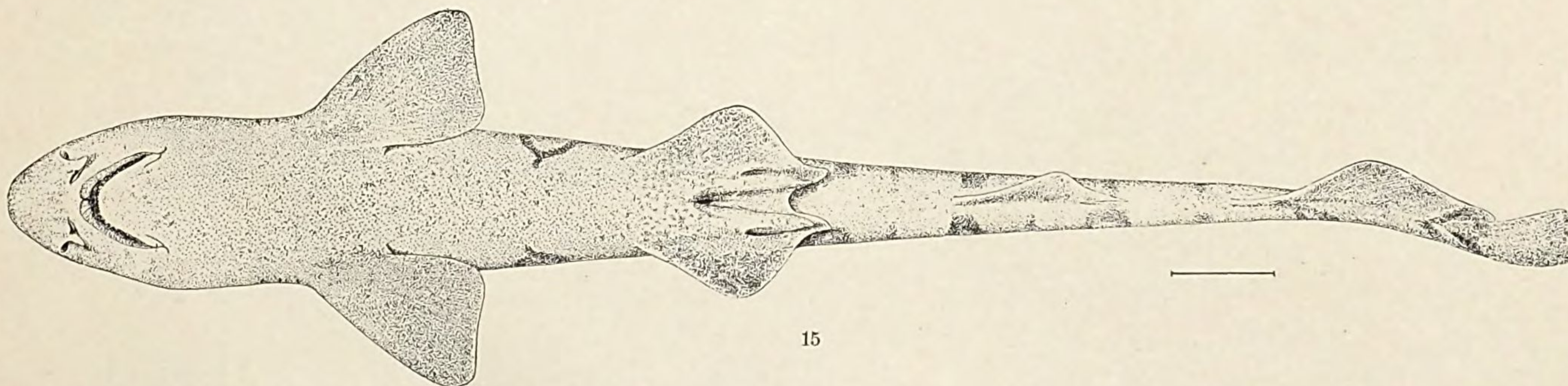
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14

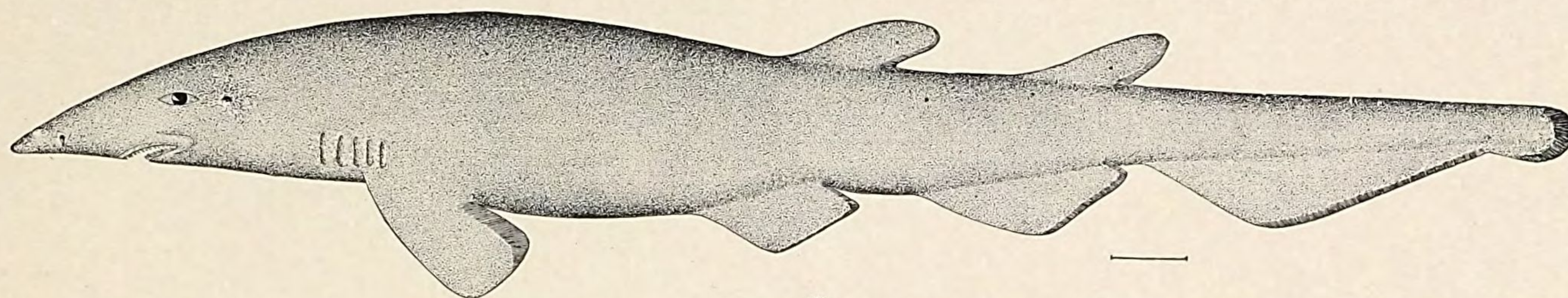


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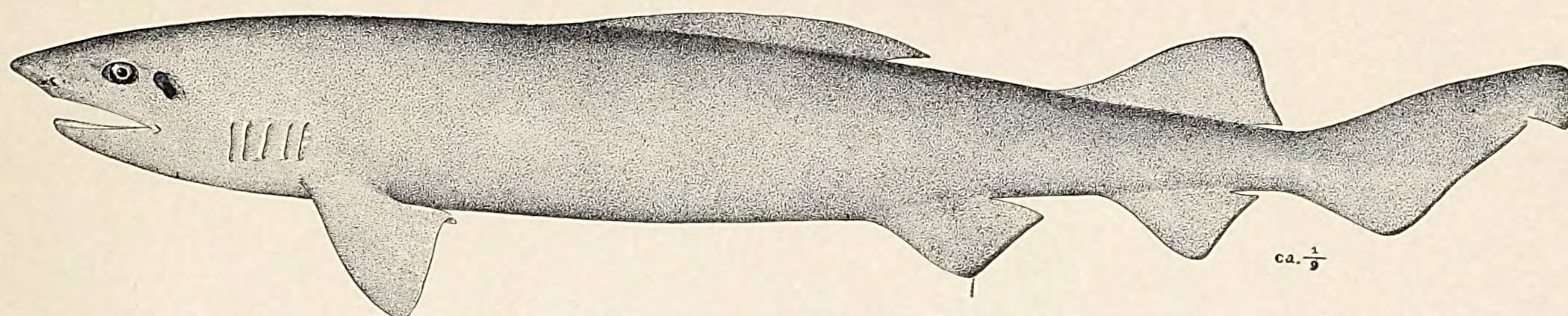
12. SCYMNODON RINGENS. (p. 11.)

13. CENTROSCYMNUS COELOLEPIS. (p. 14.)

14, 15. SCYLLIORHINUS RETIFER. (p. 14.)

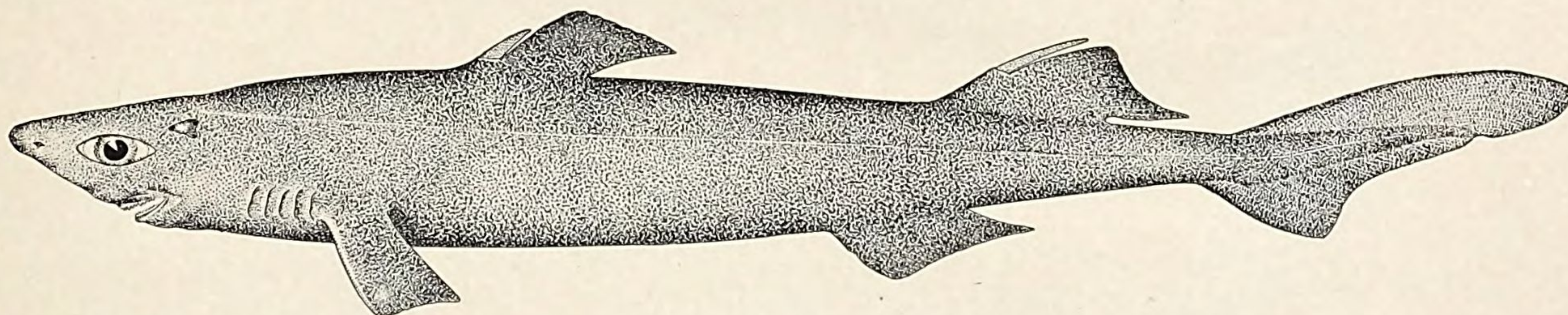


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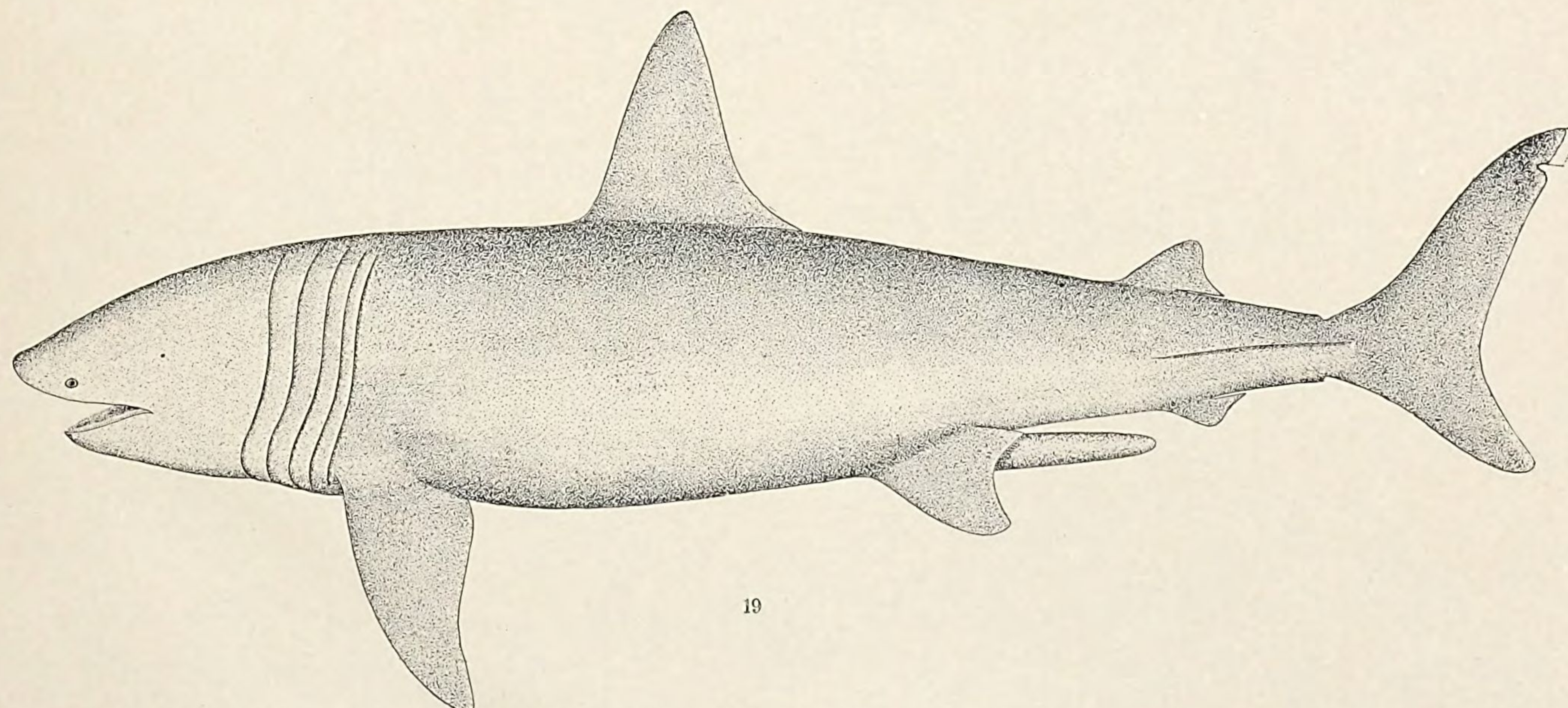


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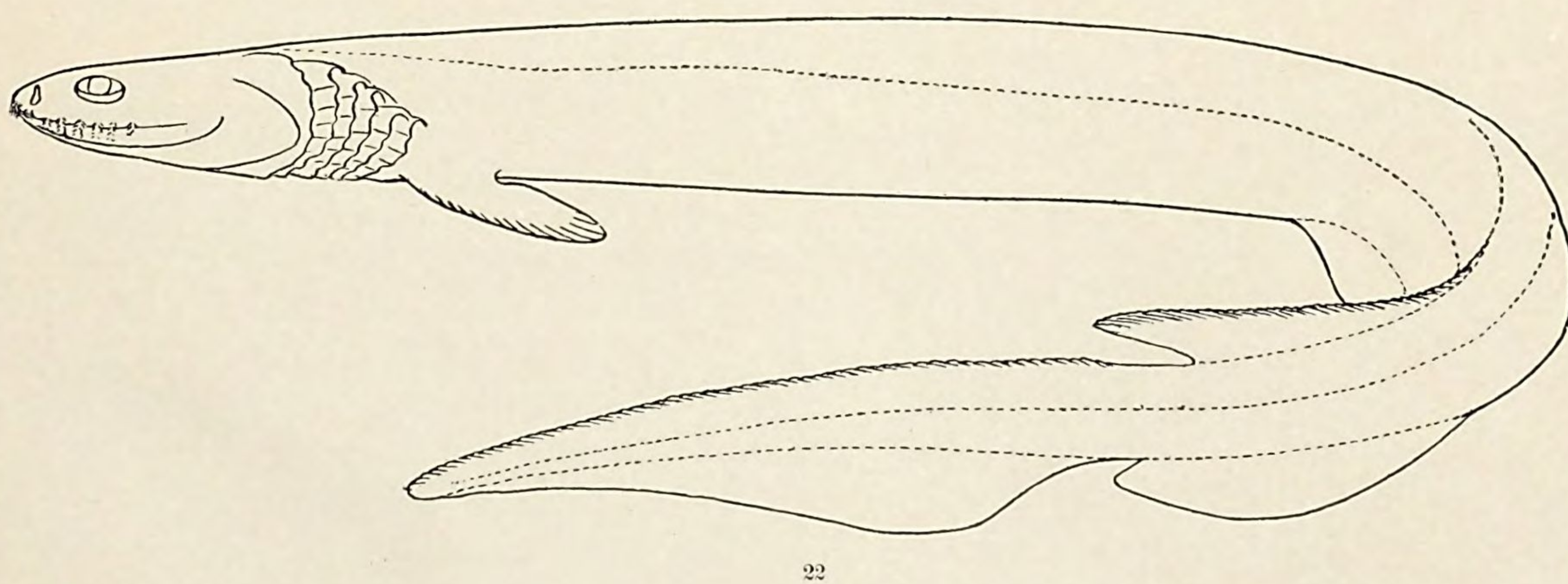
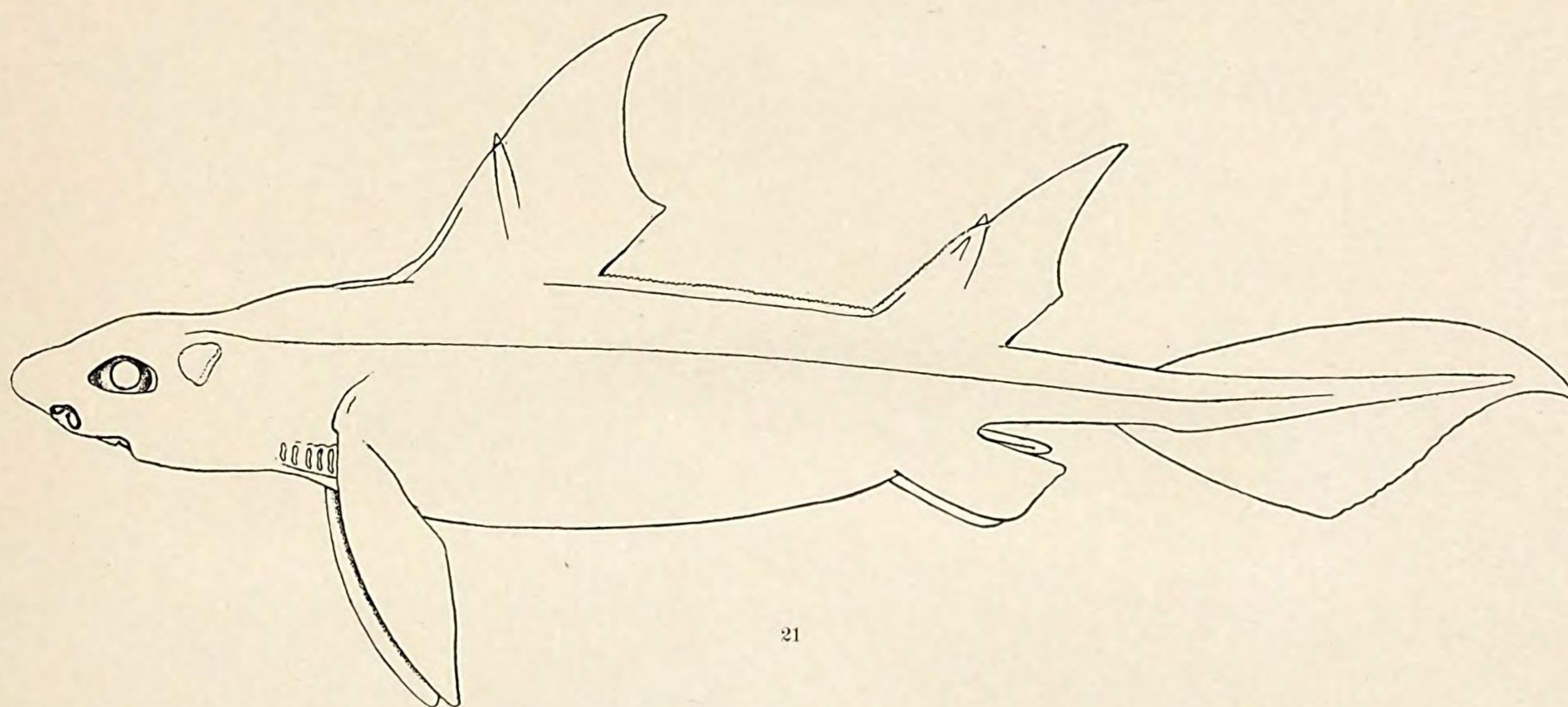
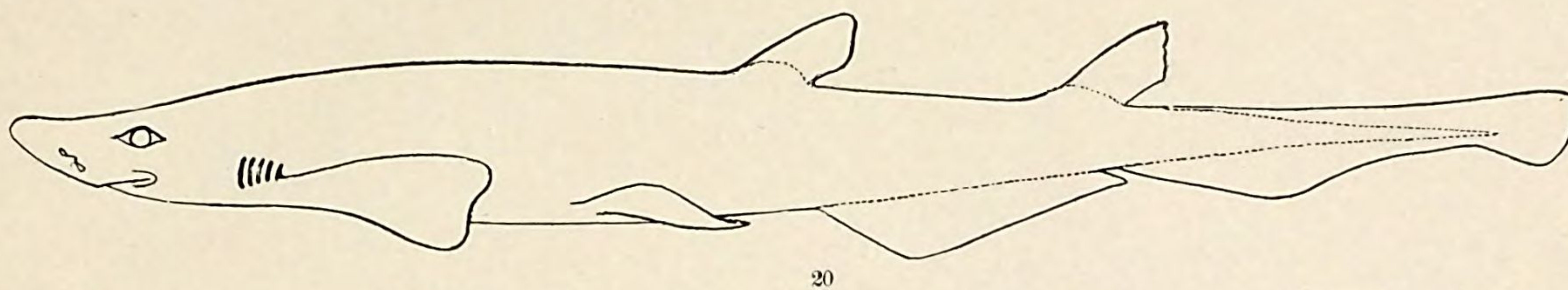
18



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16. SCYLLIORHINUS PROFUNDORUM. (p. 17.)
18. SPINAX NIGER. (p. 10.)

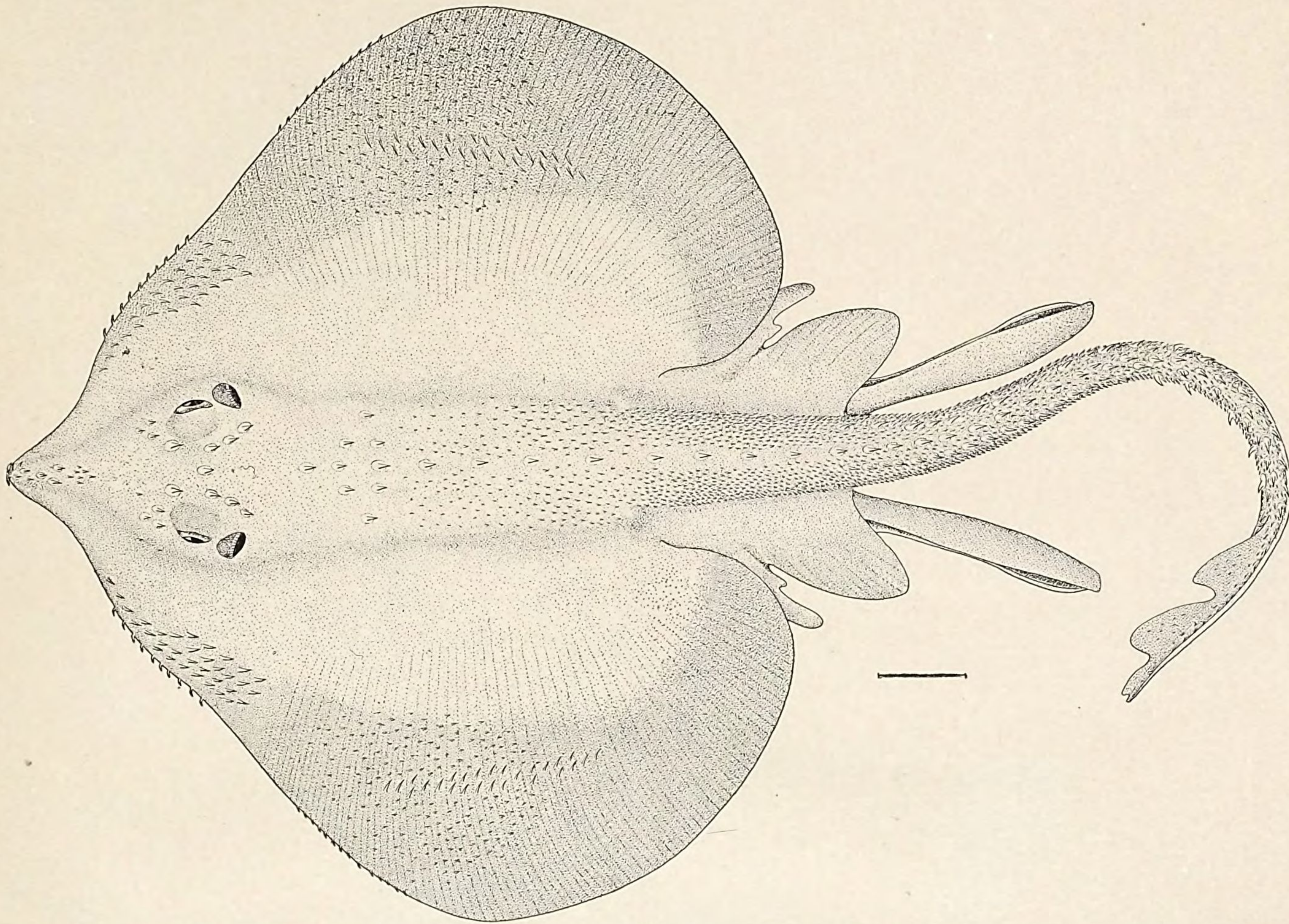
17. PSEUDOTRIACIS MICRODON. (p. 18.)
19. CETORHINUS MAXIMUS. (p. 21.)



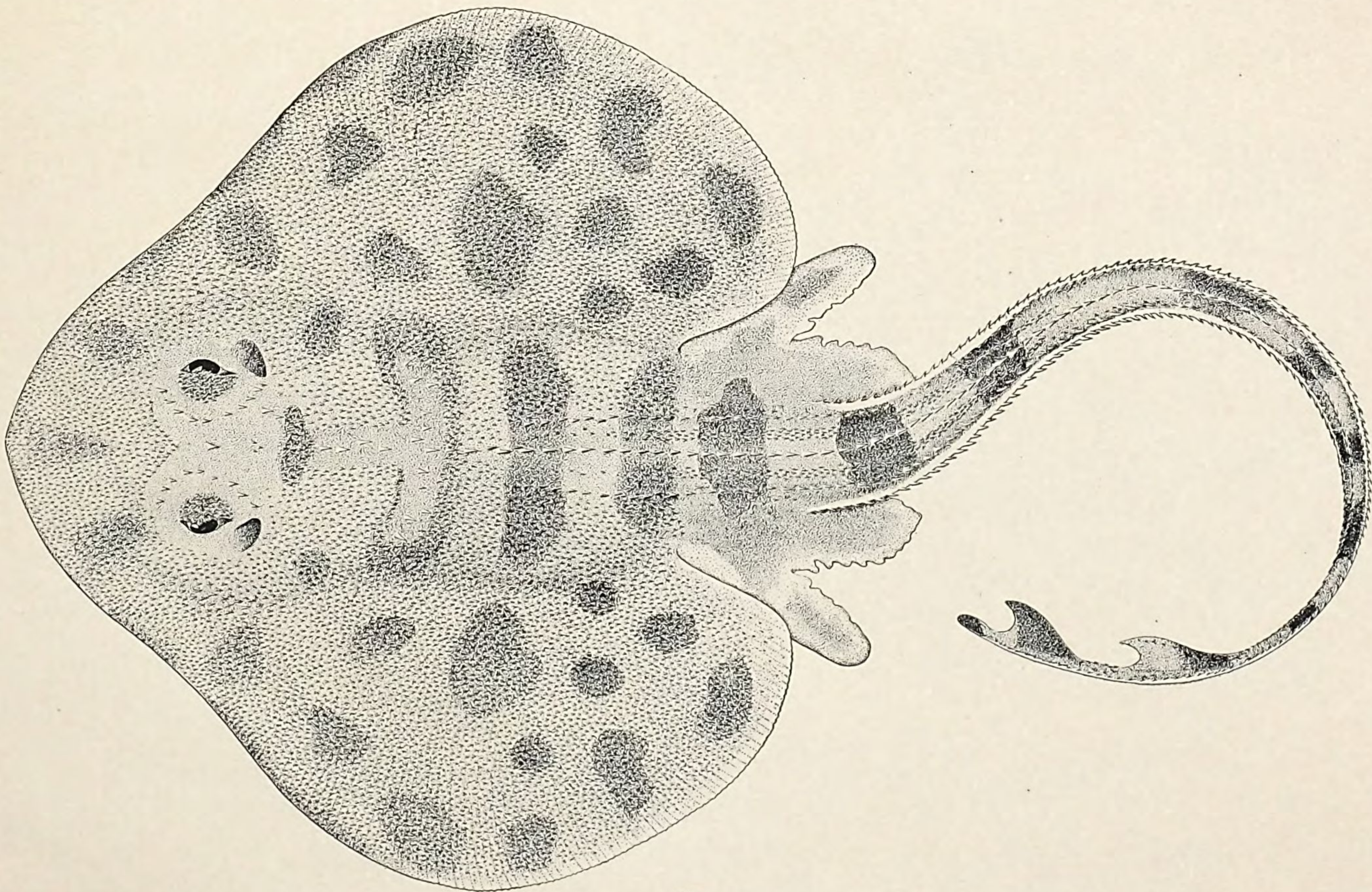
20. PRISTIURUS ATLANTICUS. (p. 21.)

21. OXYNOTUS CENTRINA. (p. 15.)

22. CHLAMYDOSELACHUS ANGUINEUS. (p. 22.)



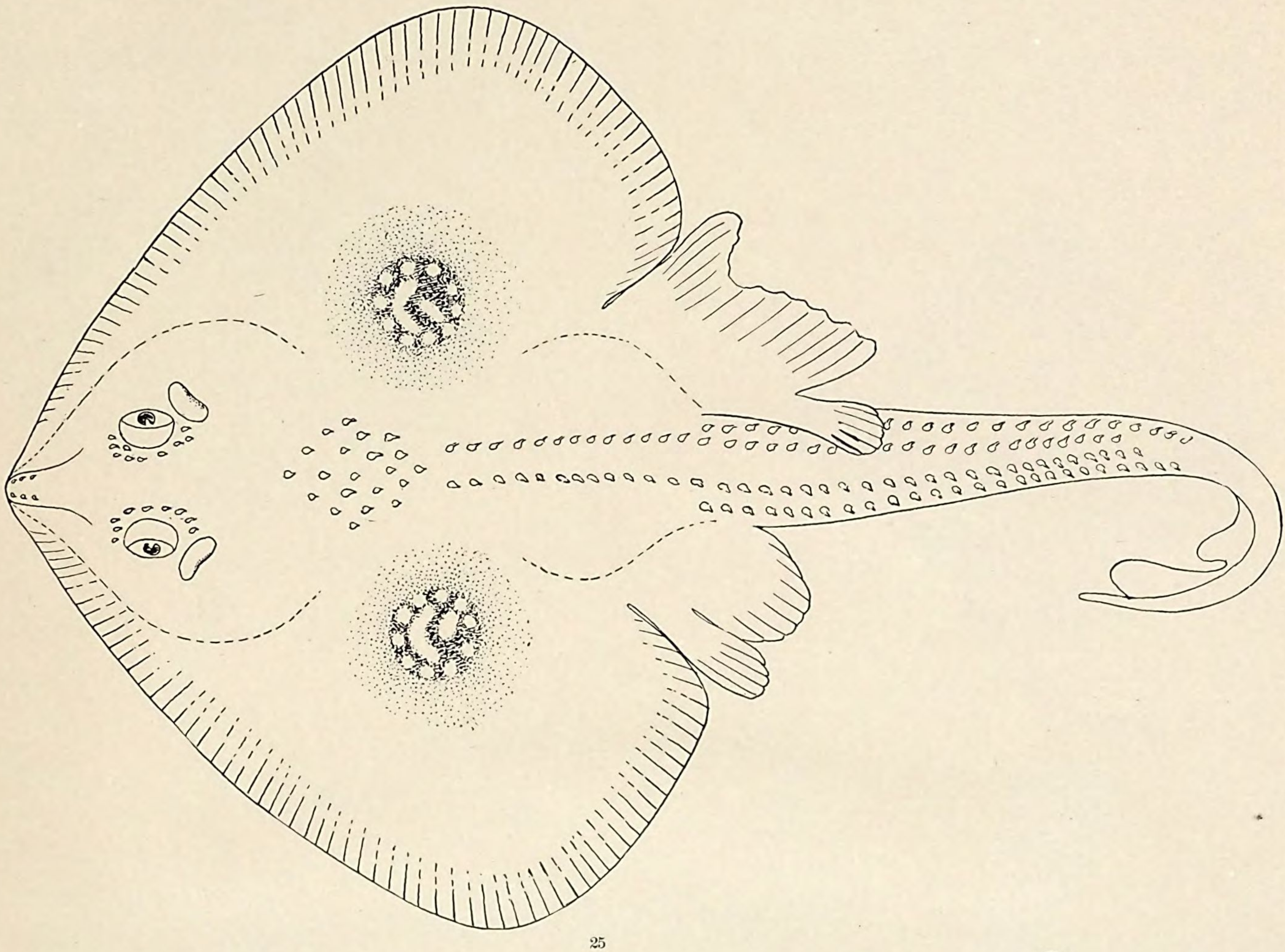
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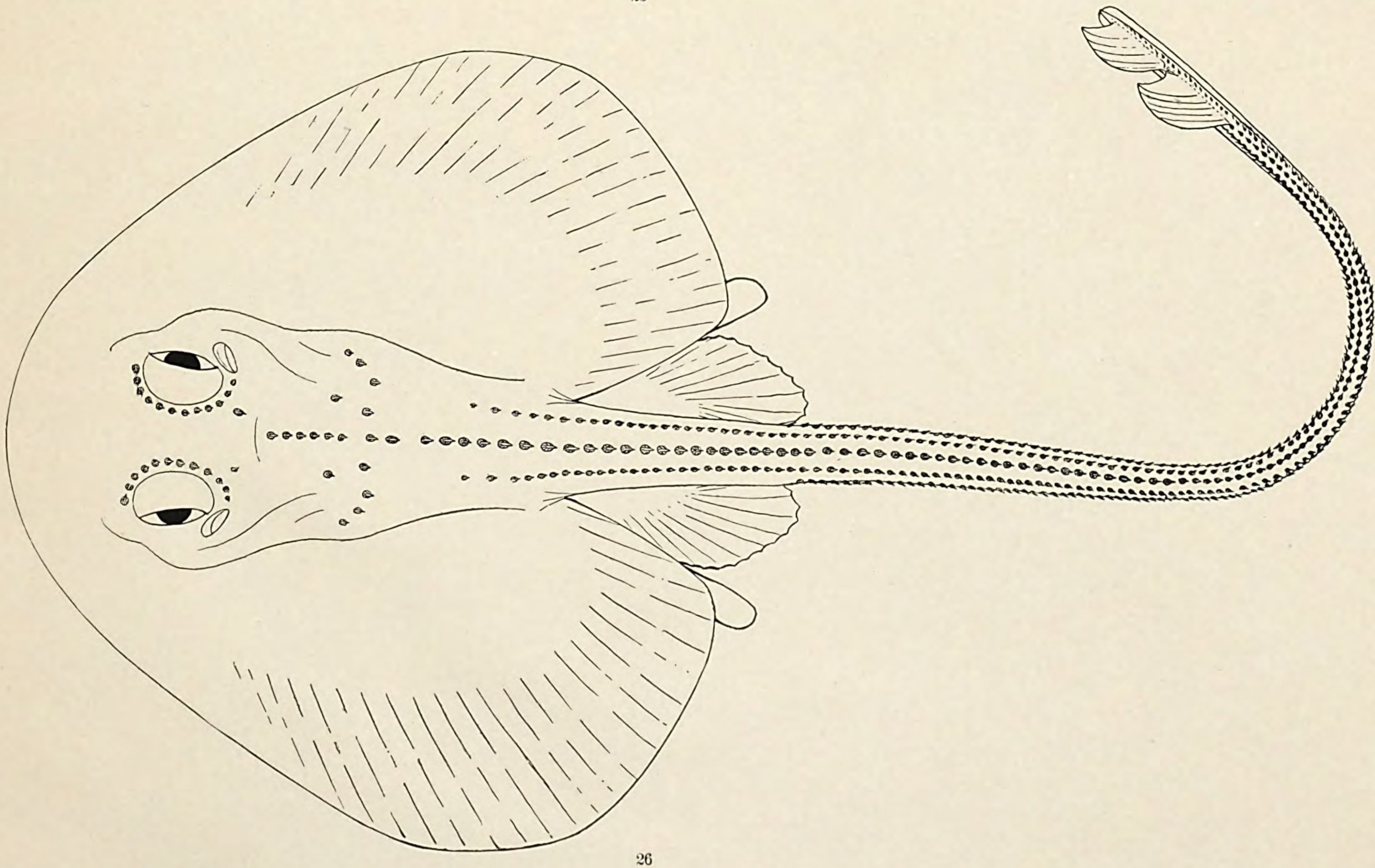
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23. *RAIA ACKLEYI*. (p. 25.)

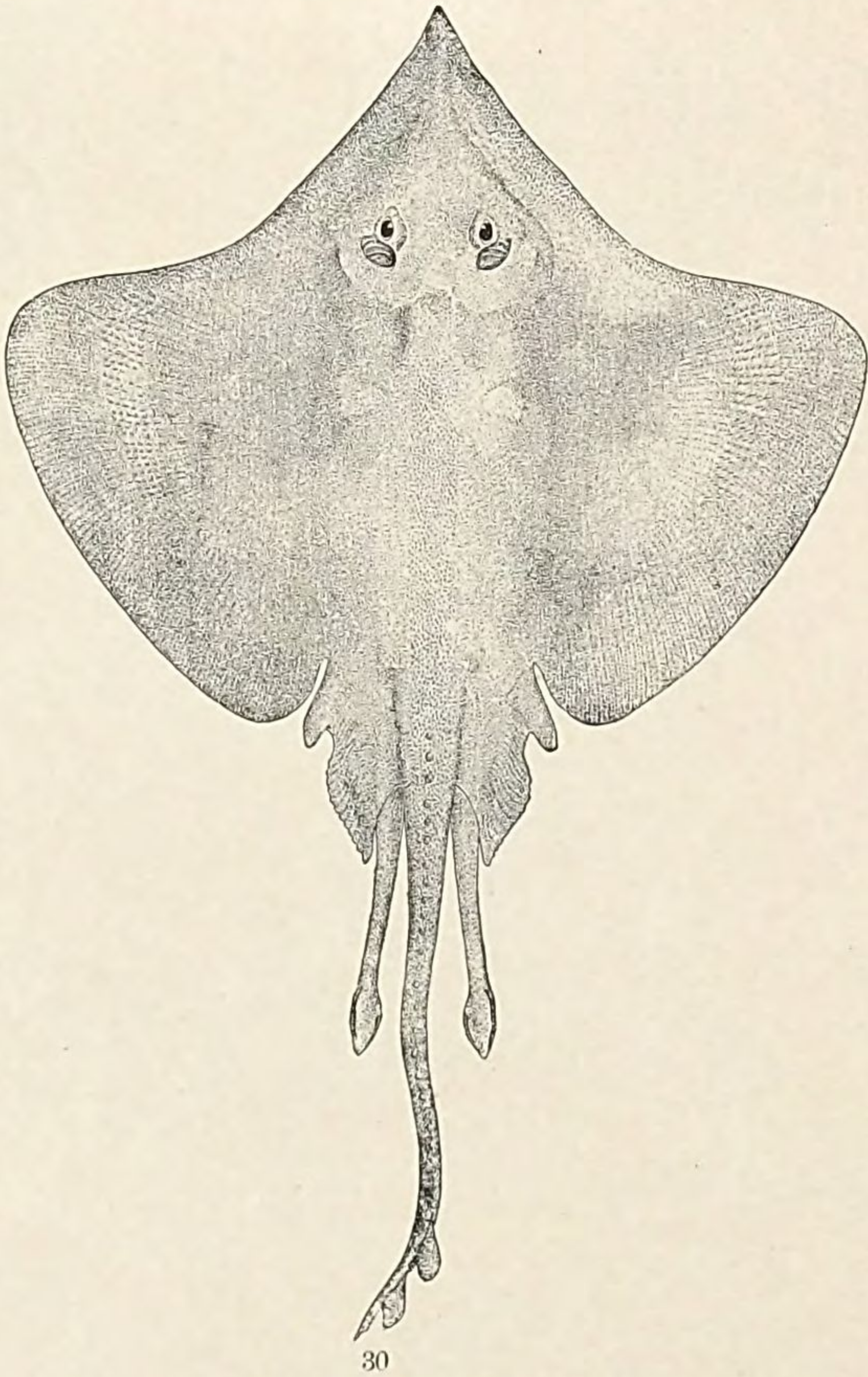
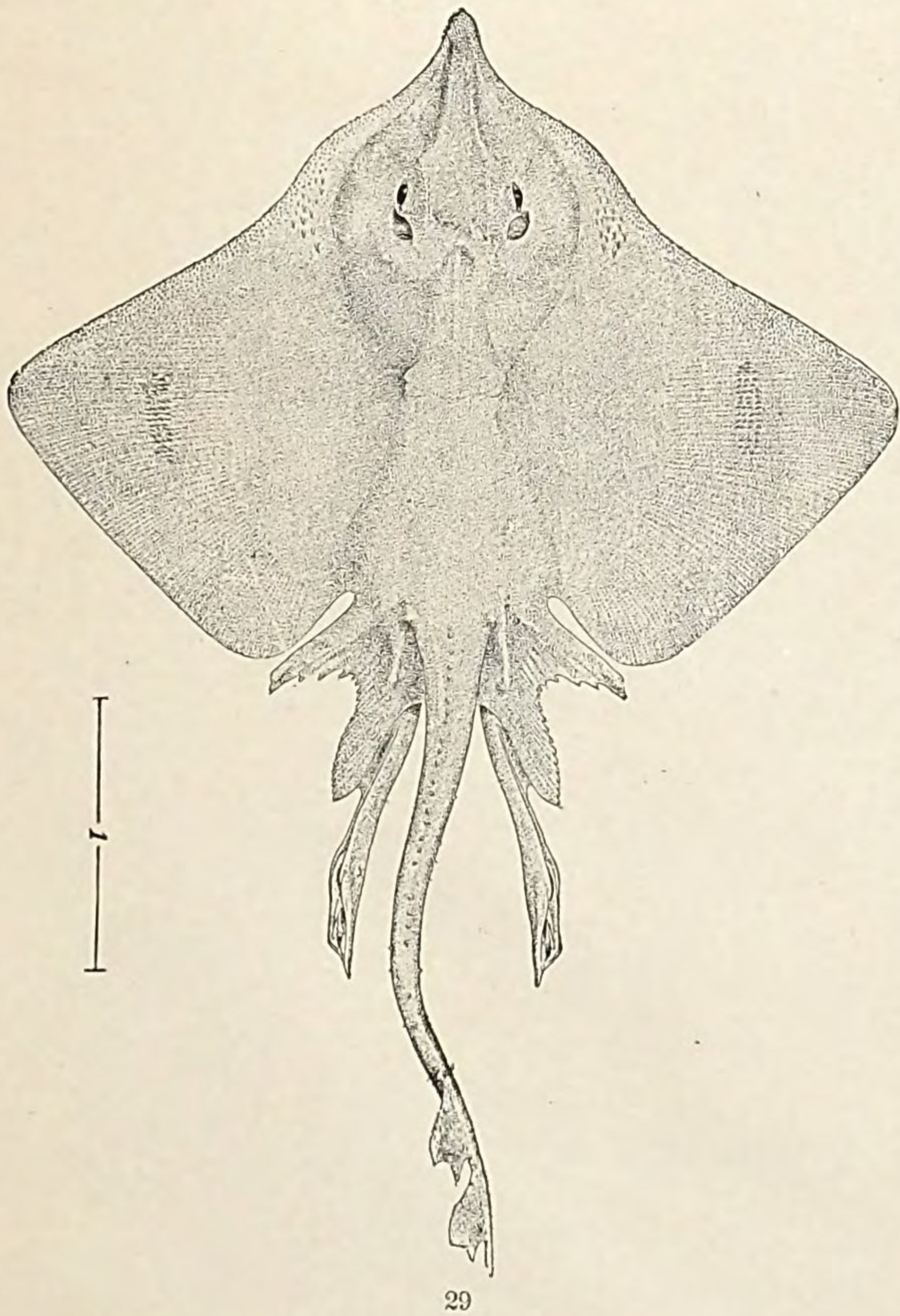
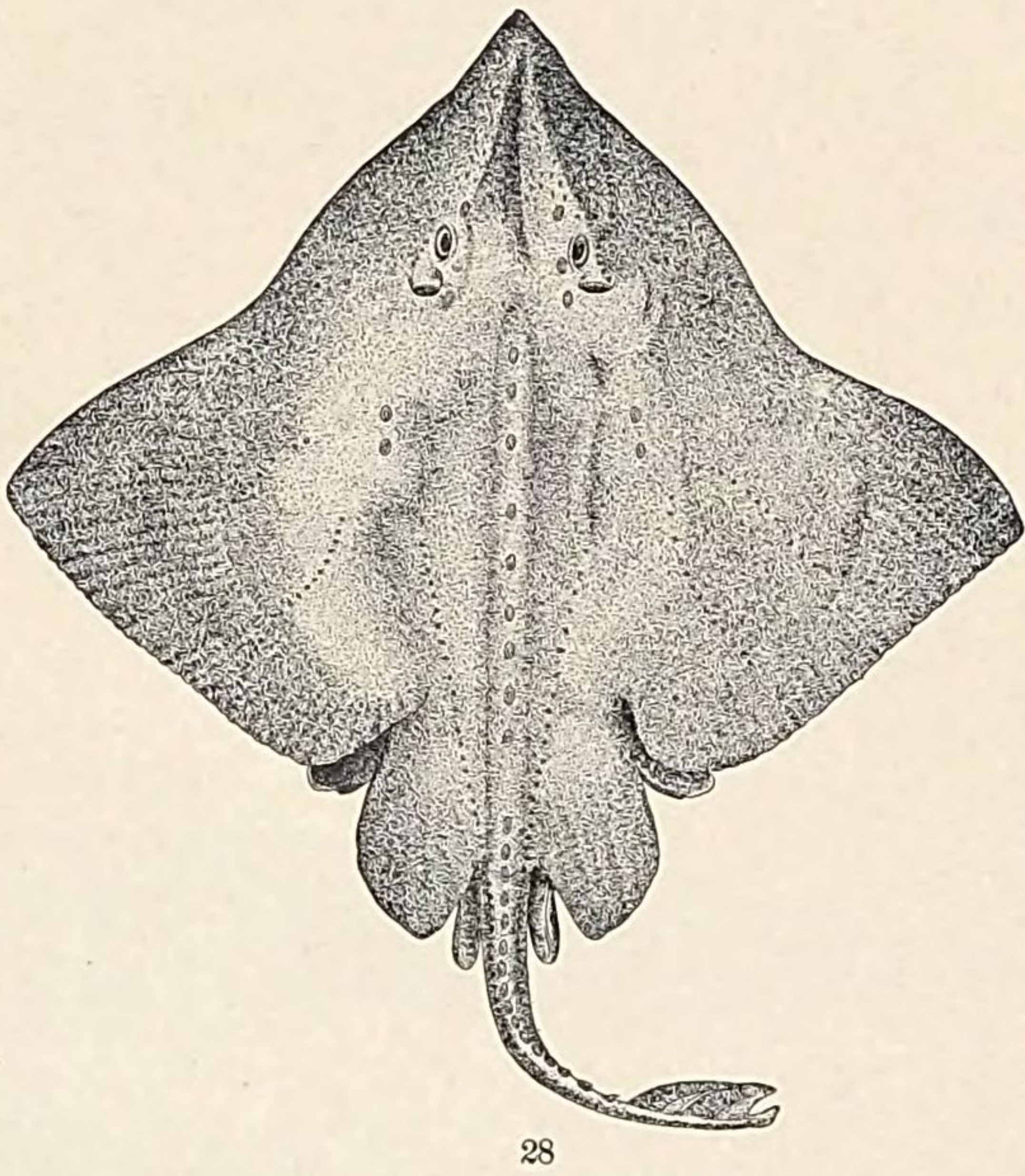
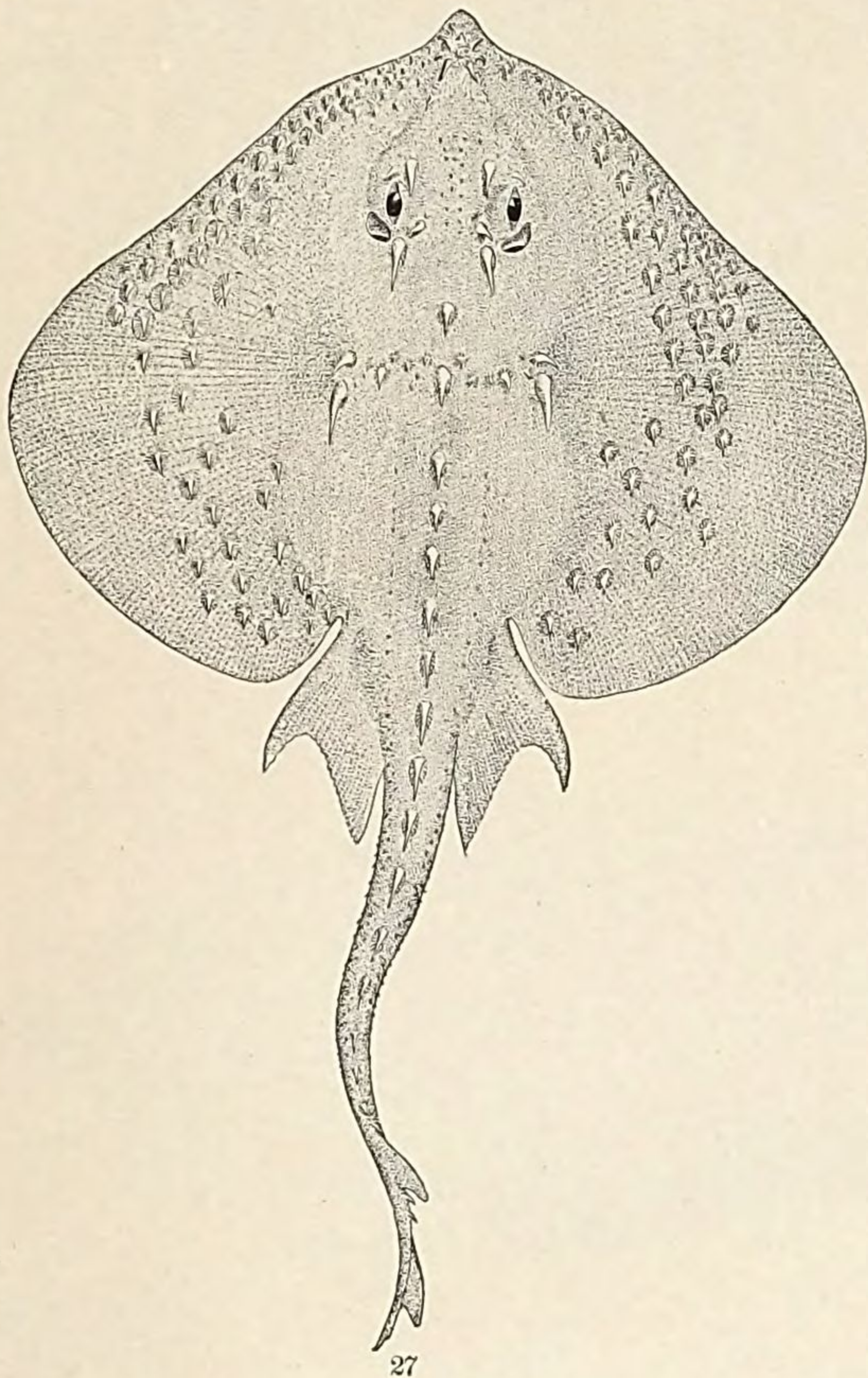
24. *RAIA ACKLEYI ORNATA*. (p. 26.)



25. *RAIA CIRCULARIS*. (p. 27.)

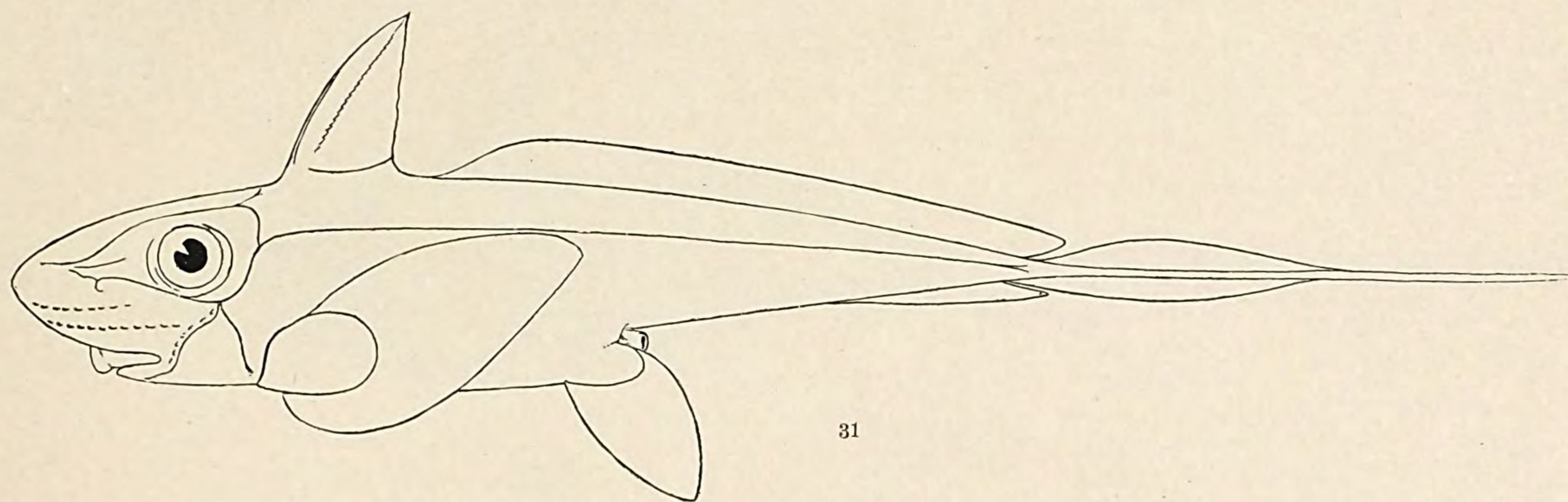


26. *RAIA PLUTONIA*. (p. 27.)

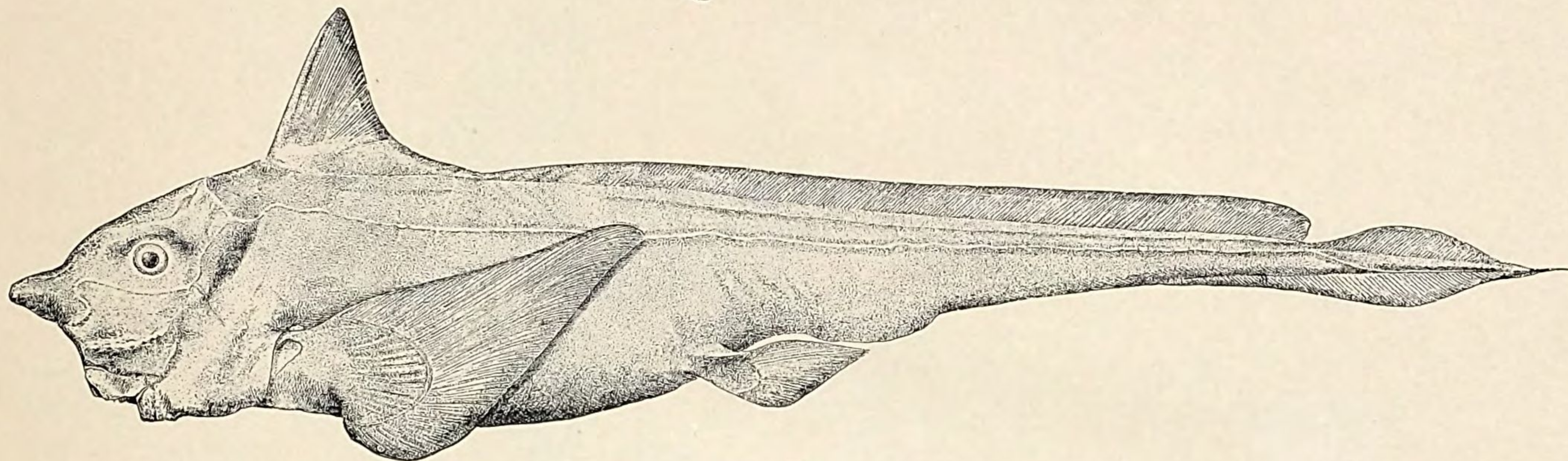


27. *RAIA RADIATA*. (p. 25.)
29. *RAIA LAEVIS*. (p. 28.)

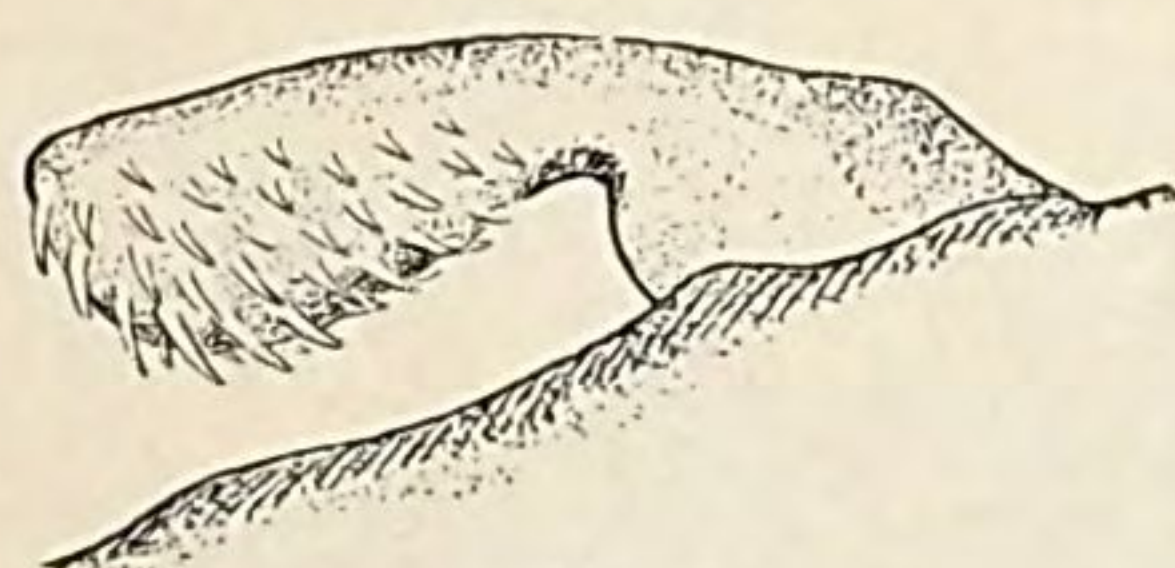
28. *RAIA HYPERBOREA*. (p. 28.)
30. *RAIA GRANULATA*. (p. 29.)



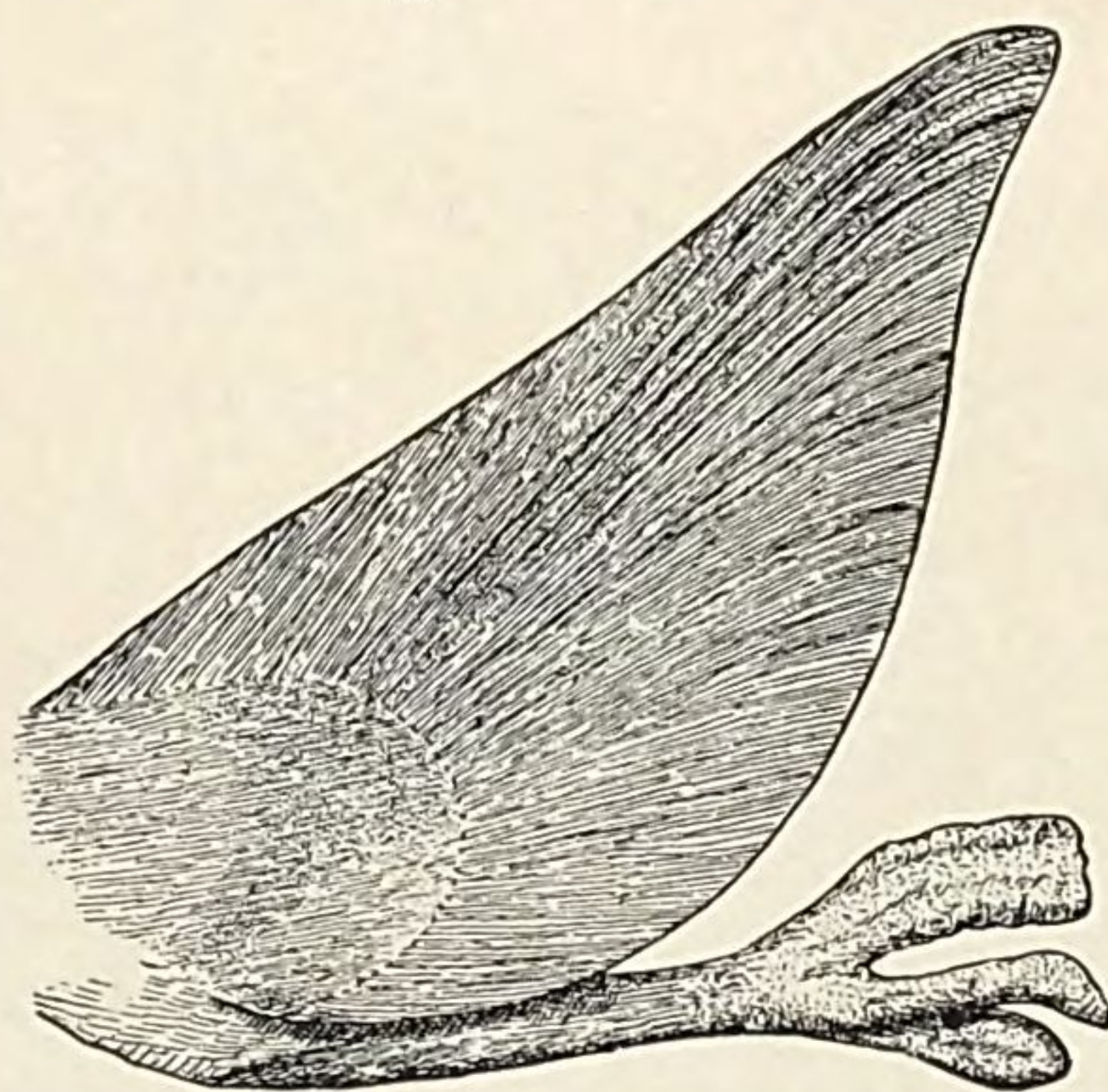
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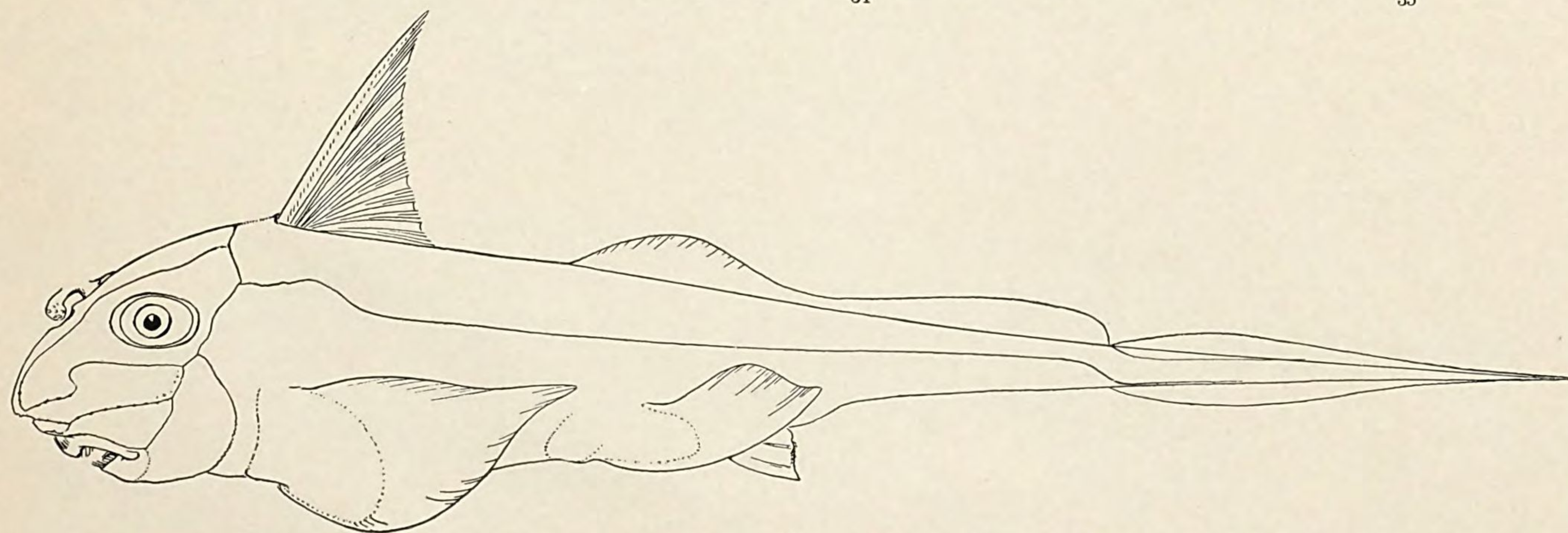
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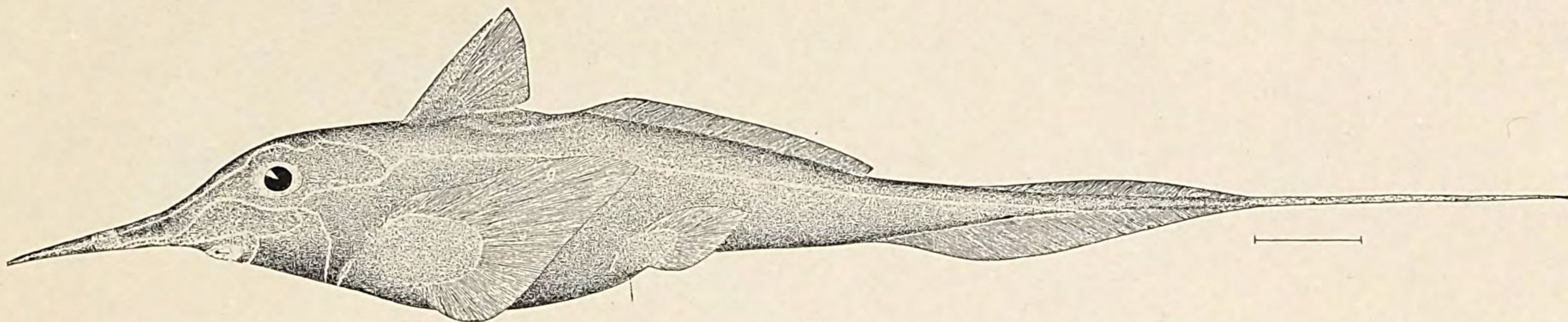


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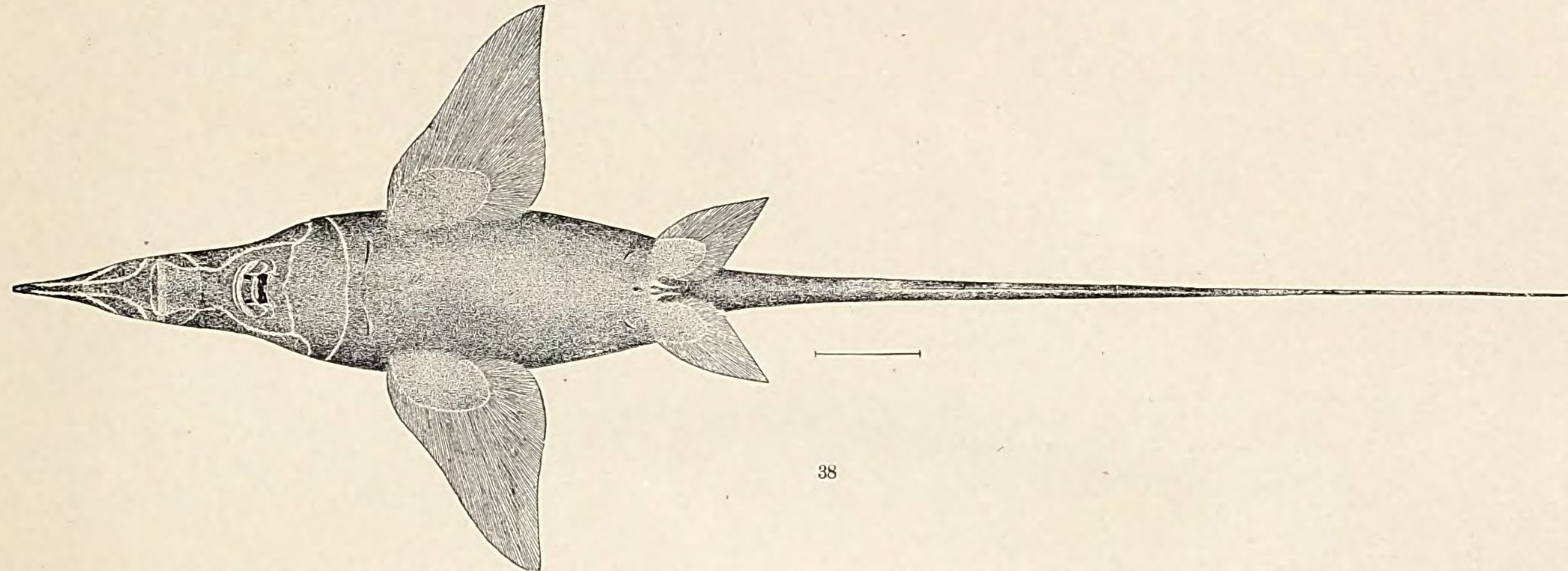
31. CHIMÆRA MONSTROSA. (p. 31.)

32-35. CHIMÆRA AFFINIS. (p. 31.)

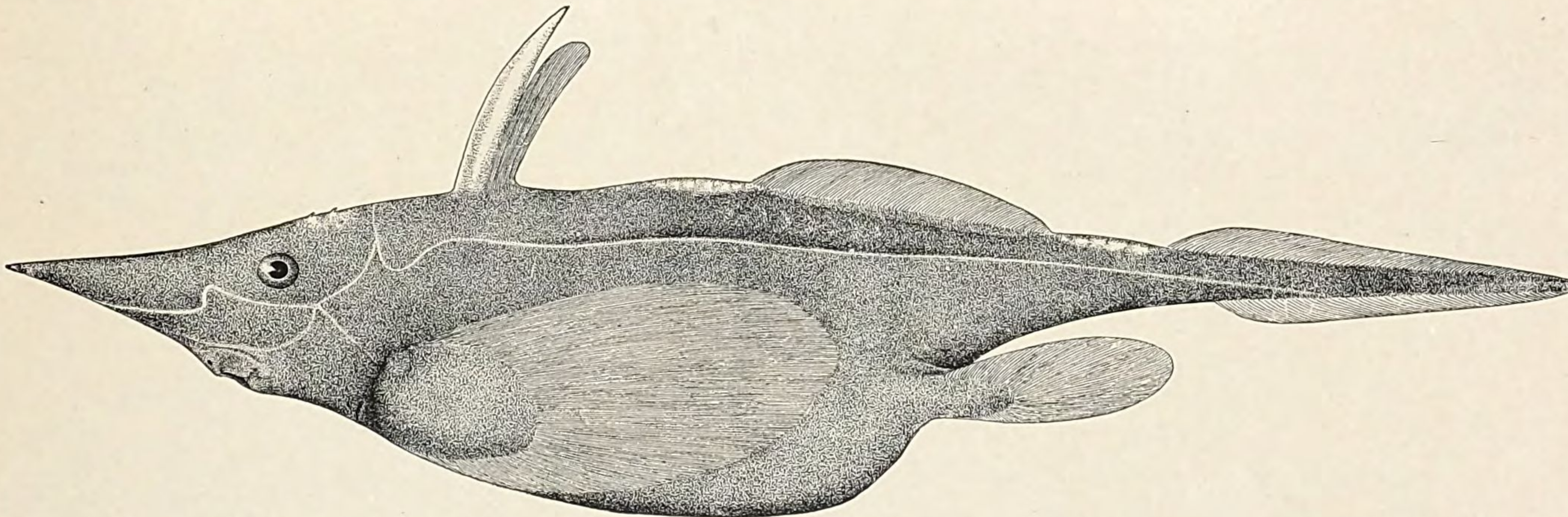
36. CALLORHYNCHUS ANTARCTICUS. (p. 32.)



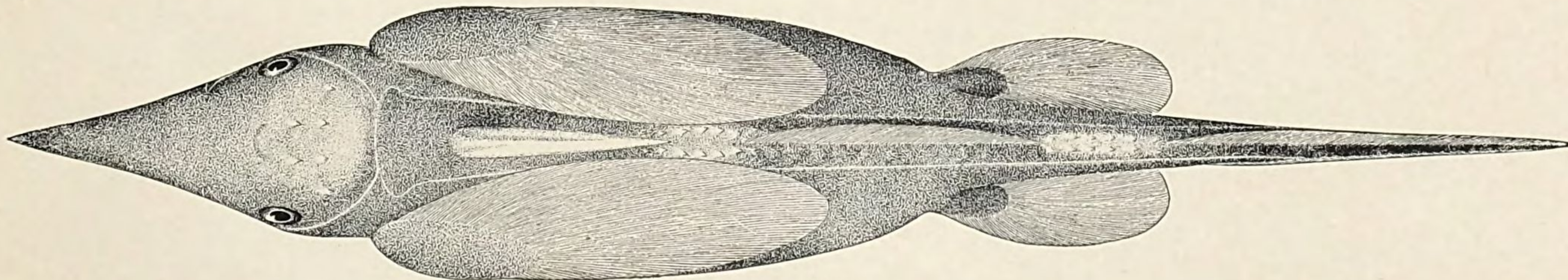
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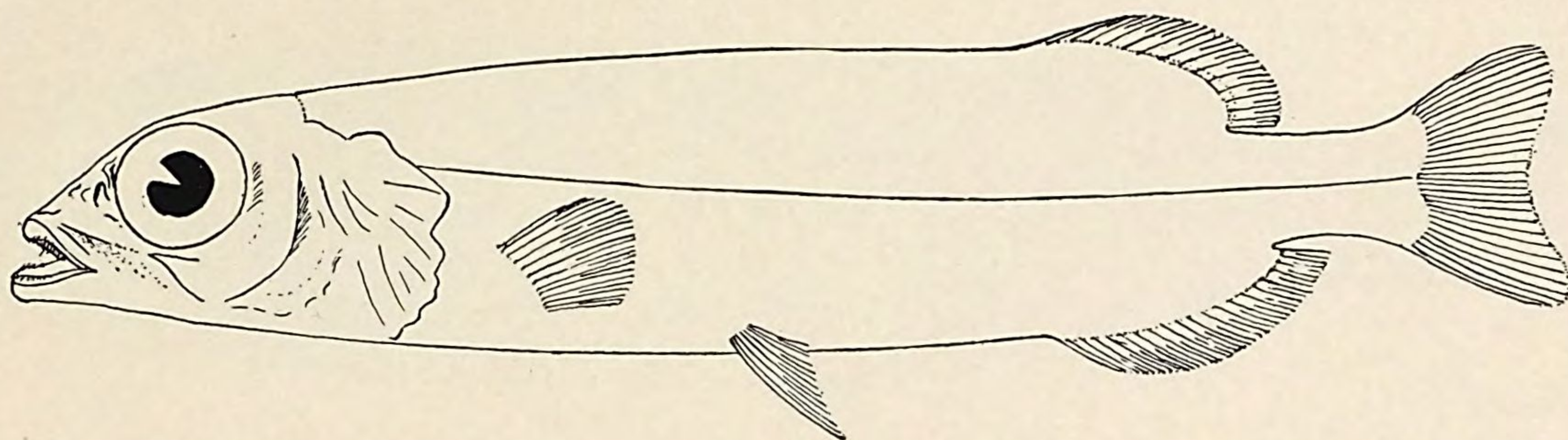
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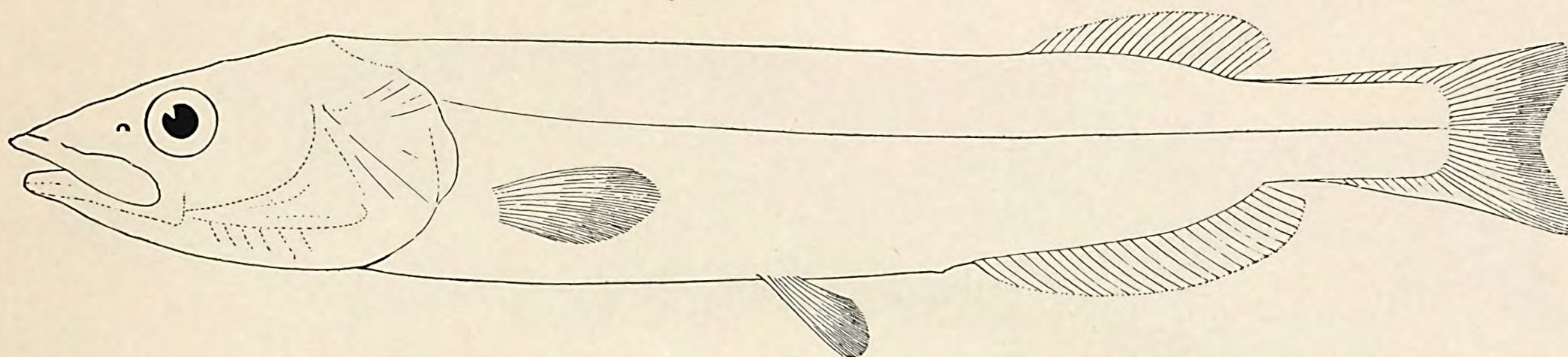
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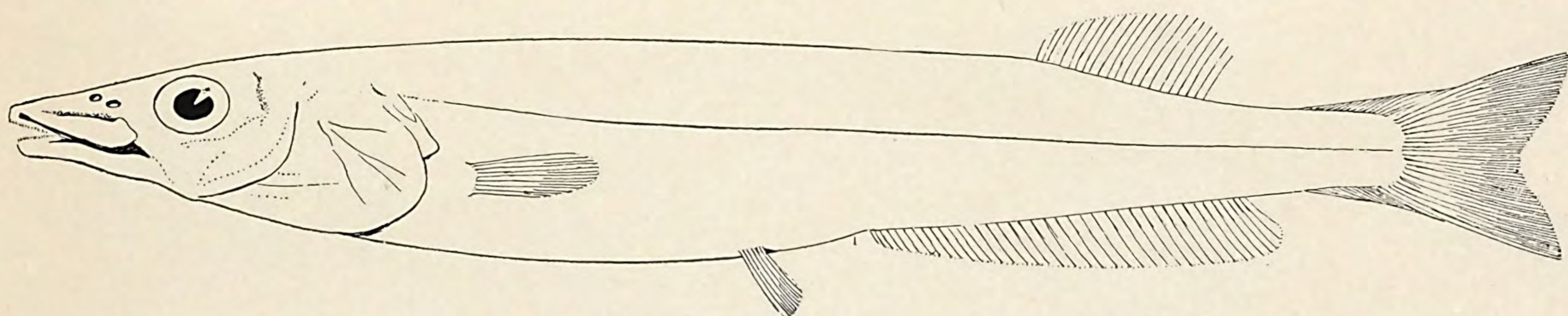
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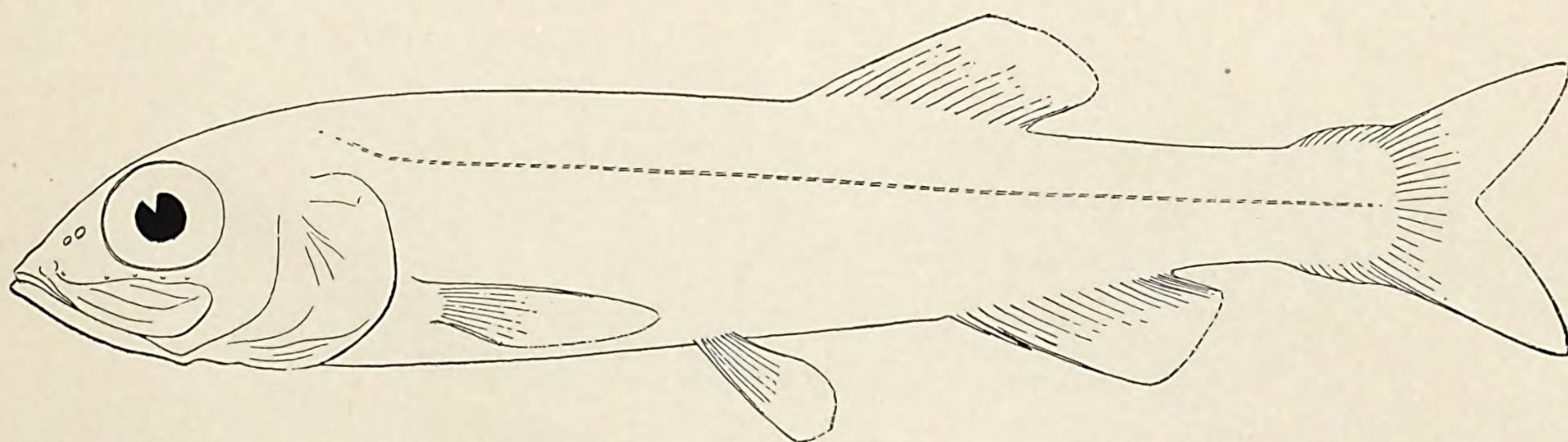
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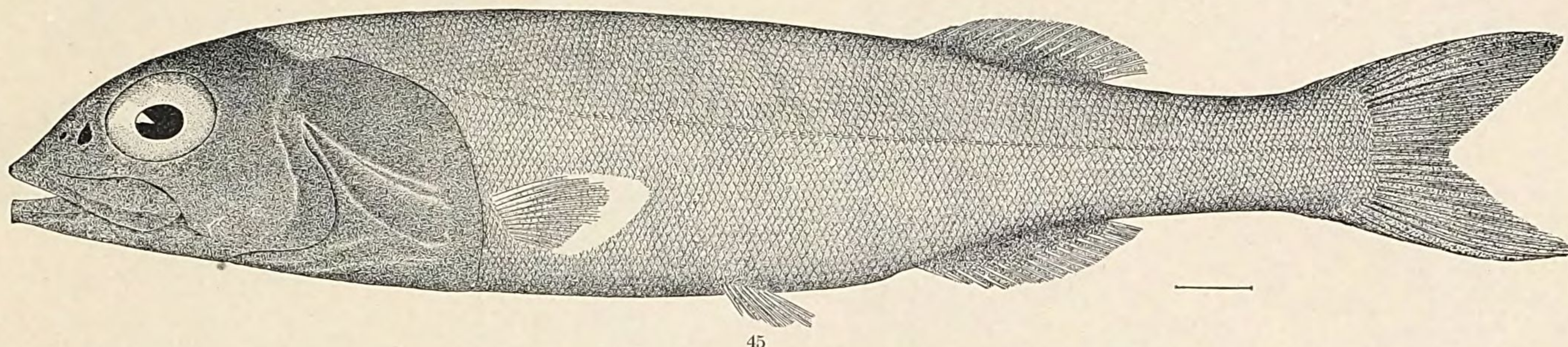
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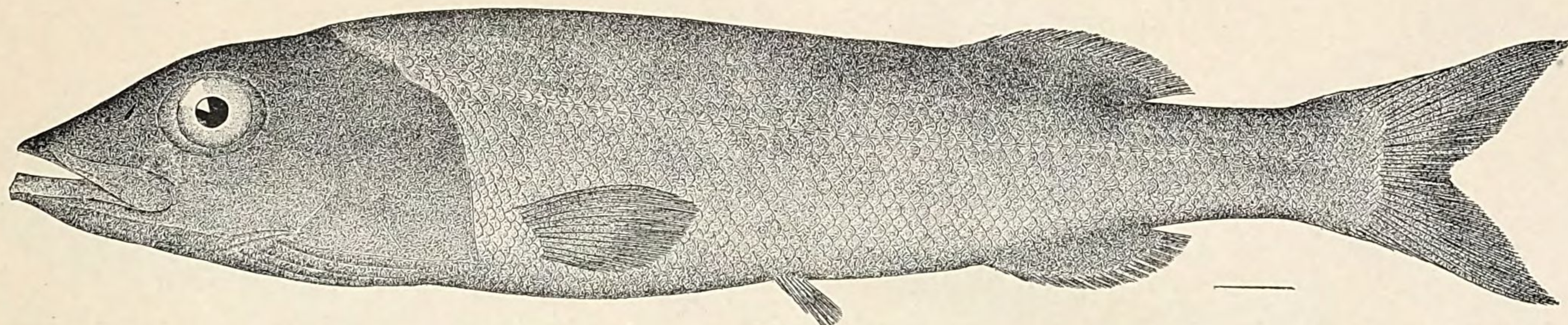
44

41. ALEPOCEPHALUS ROSTRATUS. (p. 36.)
43. CONOCARA MACROPTERA. (p. 39.)

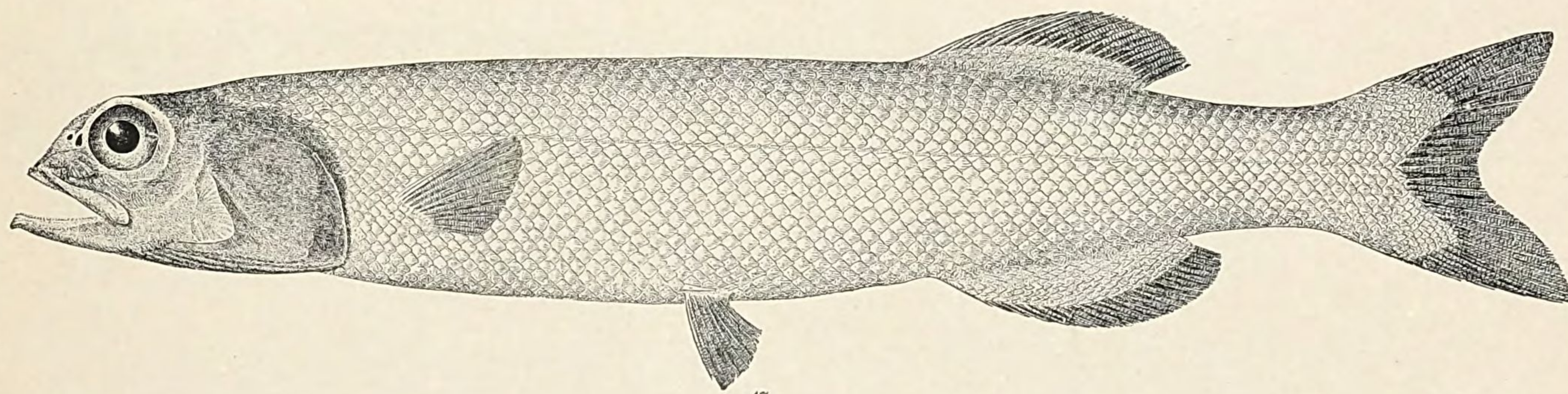
42. ALEPOCEPHALUS NIGER. (p. 38.)
44. BATHYTROCTES MACROLEPIS. (p. 41.)



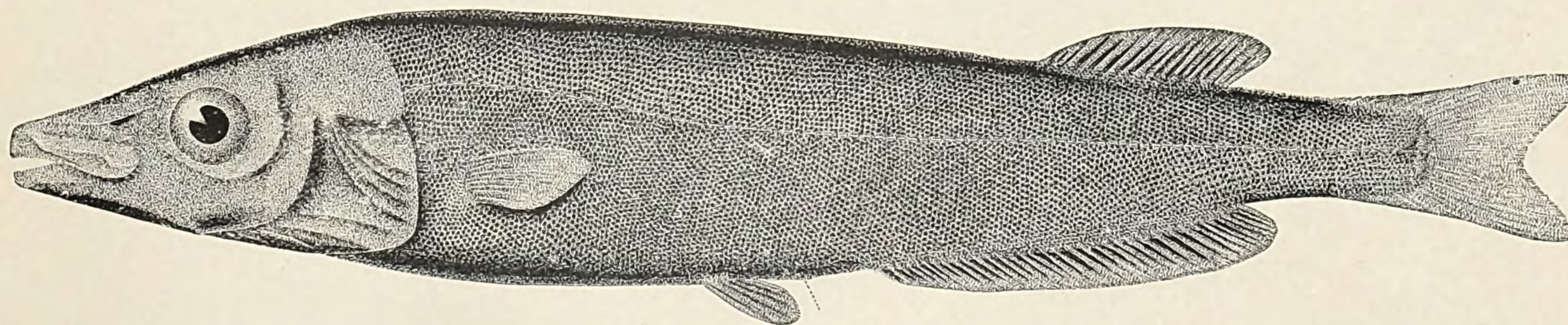
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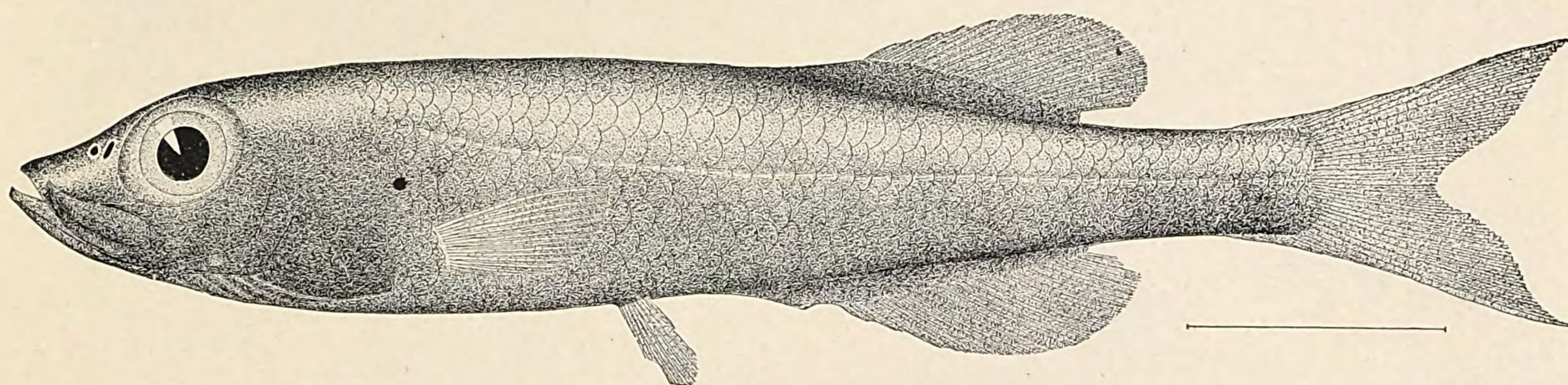
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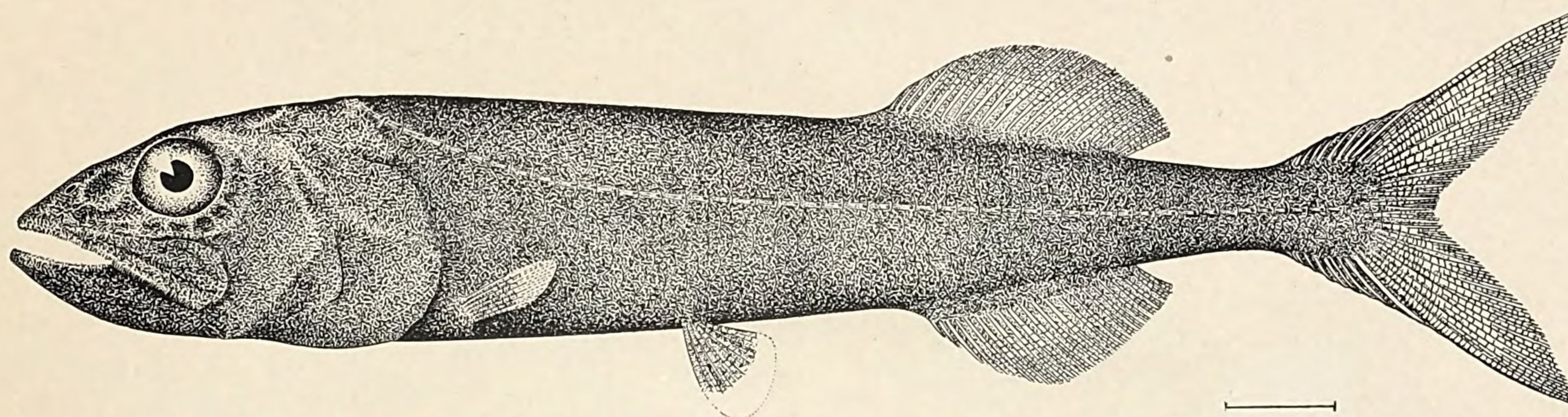
48

45. ALEPOCEPHALUS AGASSIZII. (p. 37.)
47. ALEPOCEPHALUS BAIRDII. (p. 38.)

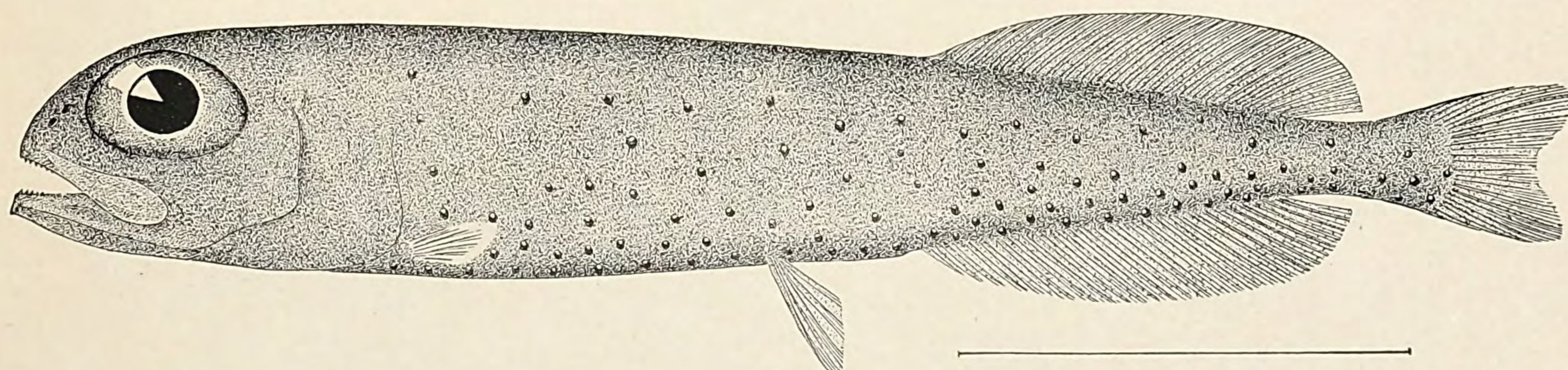
46. ALEPOCEPHALUS PRODUCTUS. (p. 37.)
48. CONOCARA McDONALDI. (p. 39.)



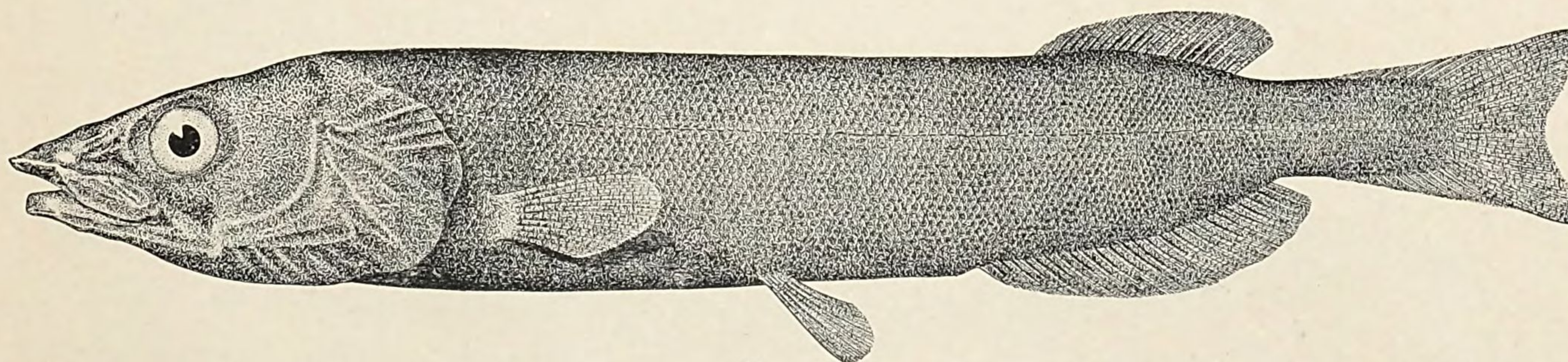
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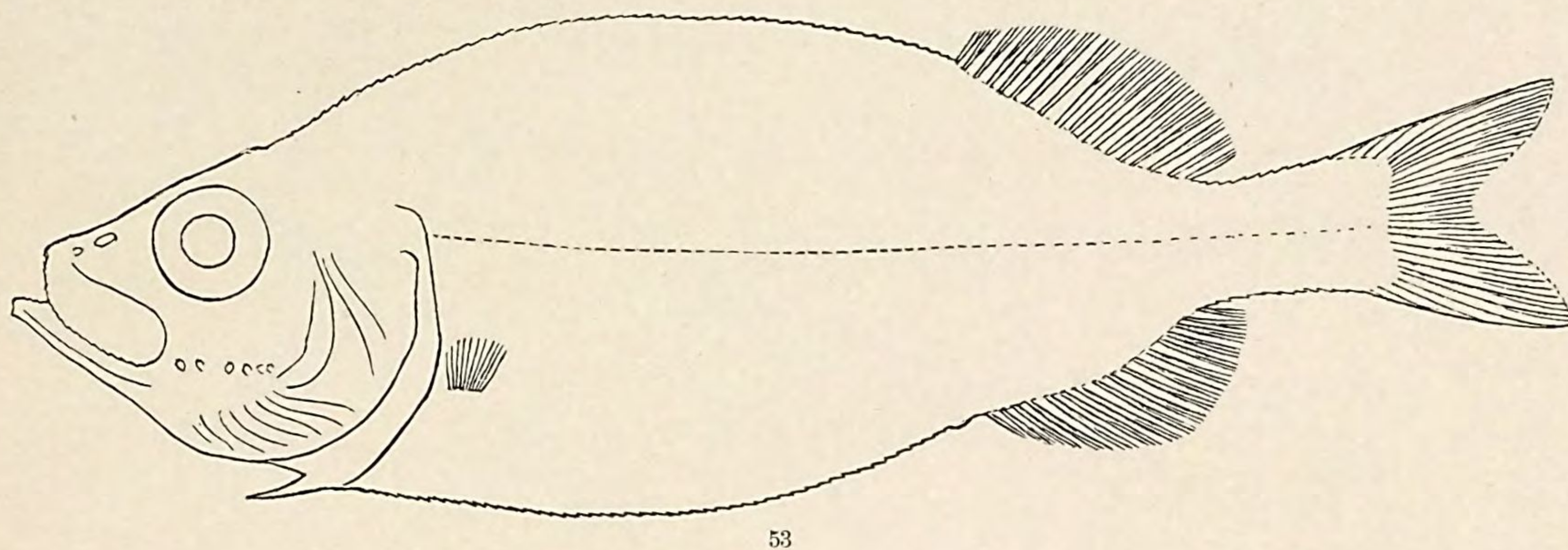
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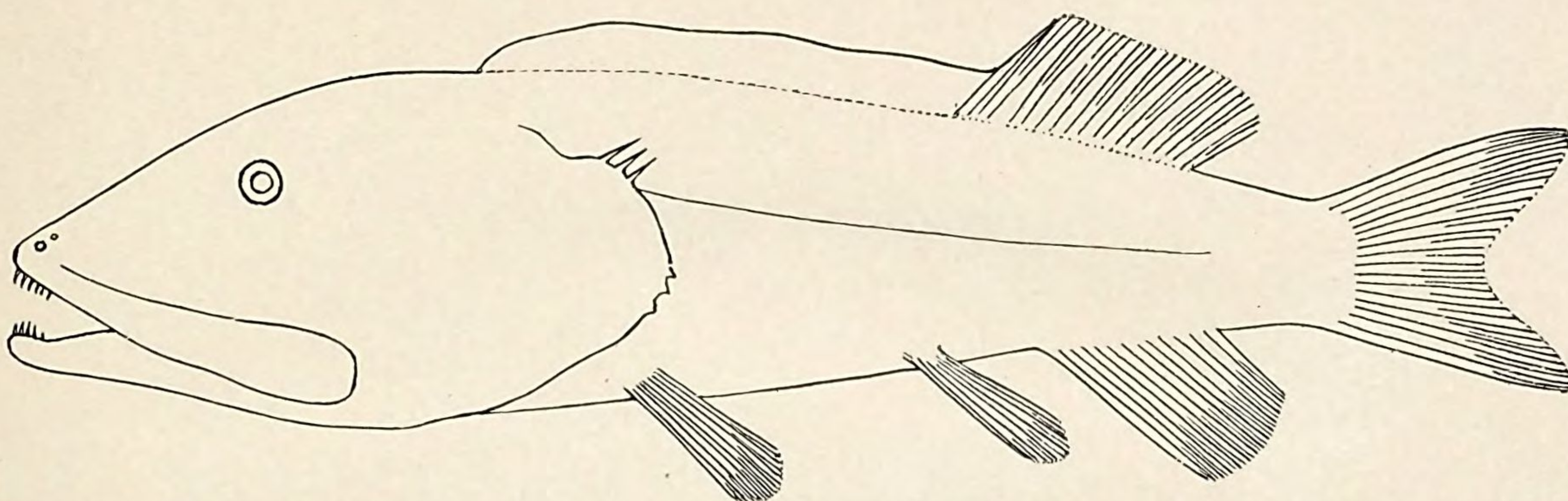
52

49. BATHYTROCTES ANTILLARUM. (p. 44.)
51. ALEPOSOMUS COPEI. (p. 47.)

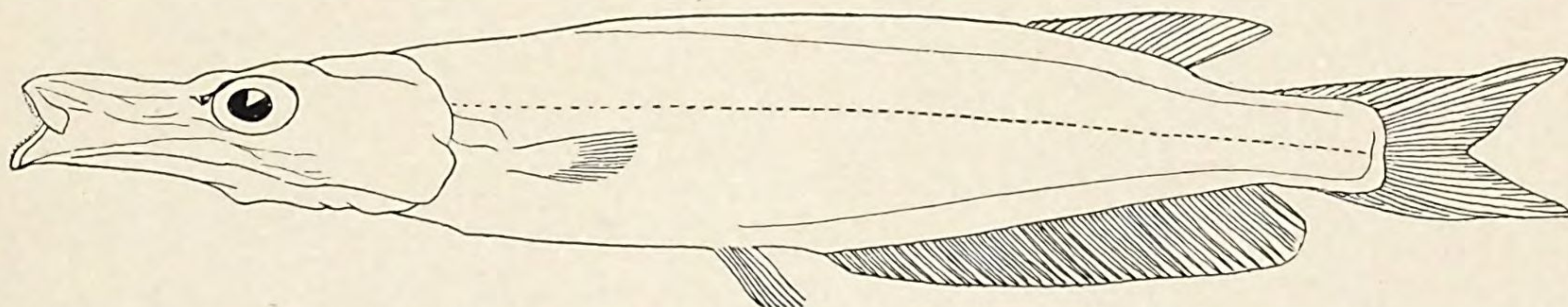
50. BATHYTROCTES ÆQUATORIS. (p. 44.)
52. PTEROTHRISSUS GISSU. (p. 51.)



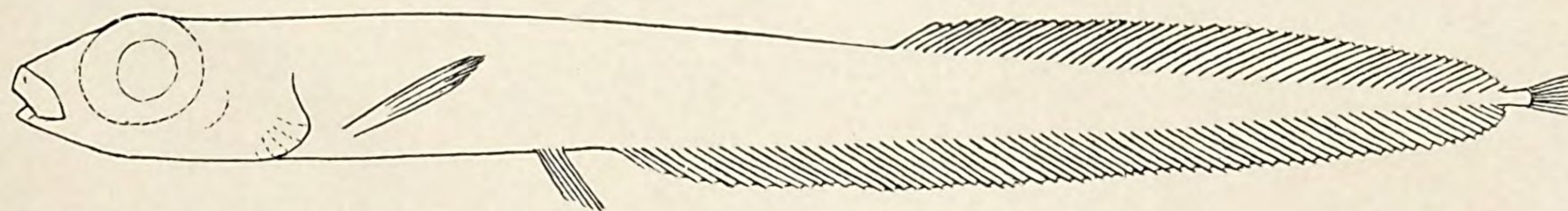
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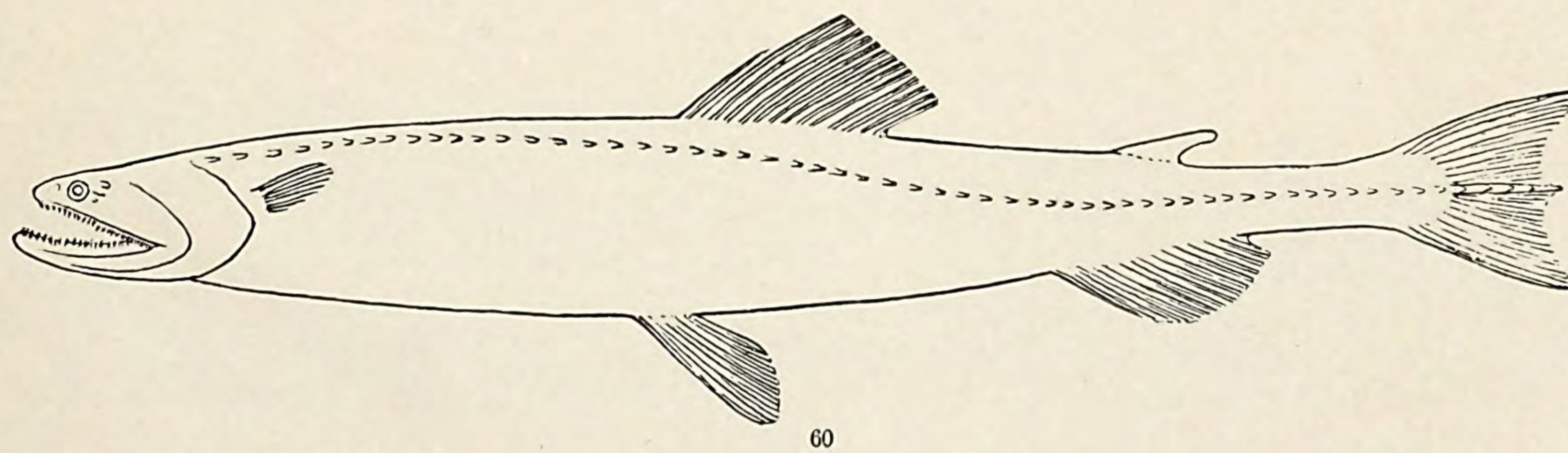
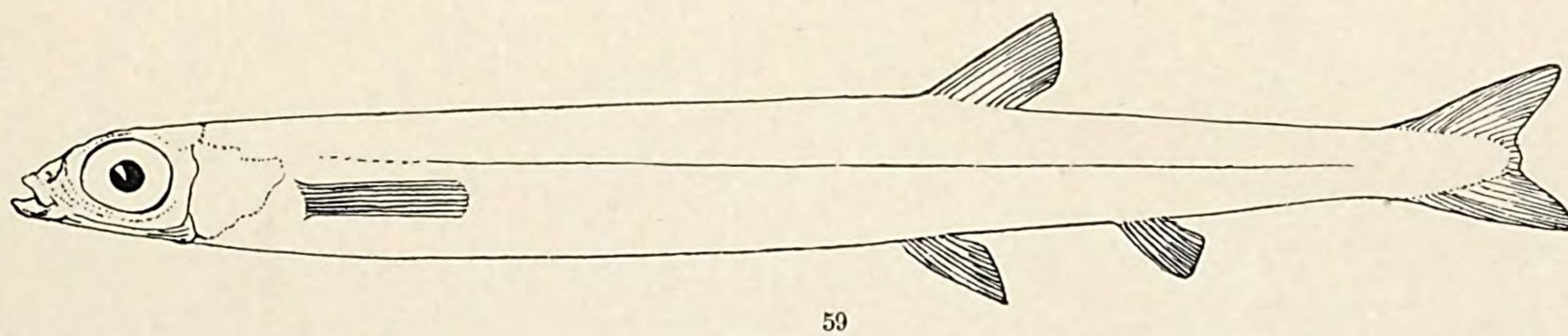
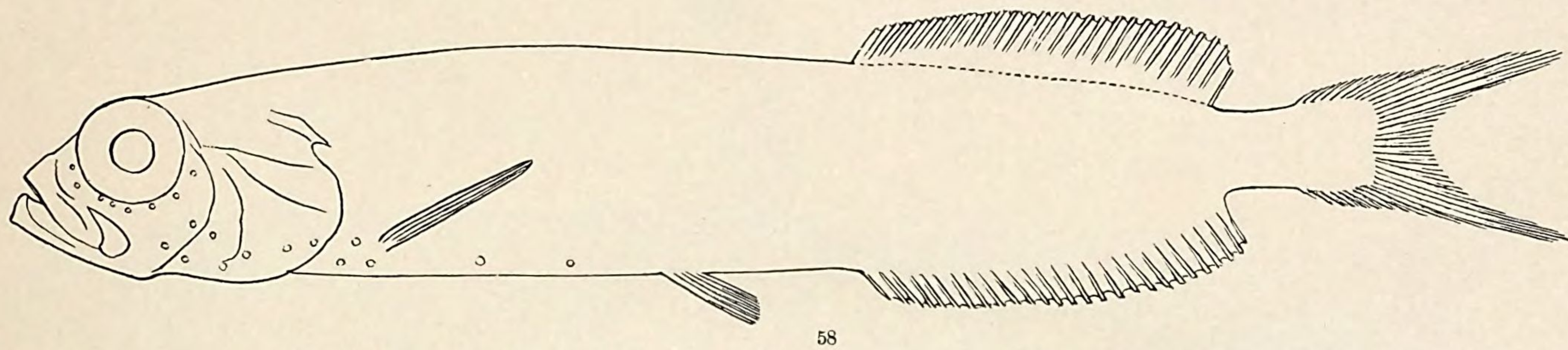
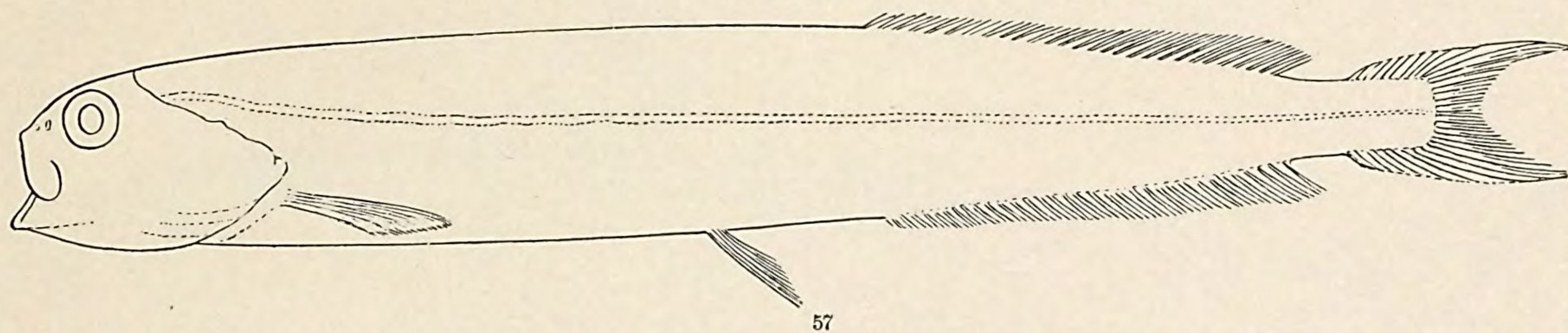
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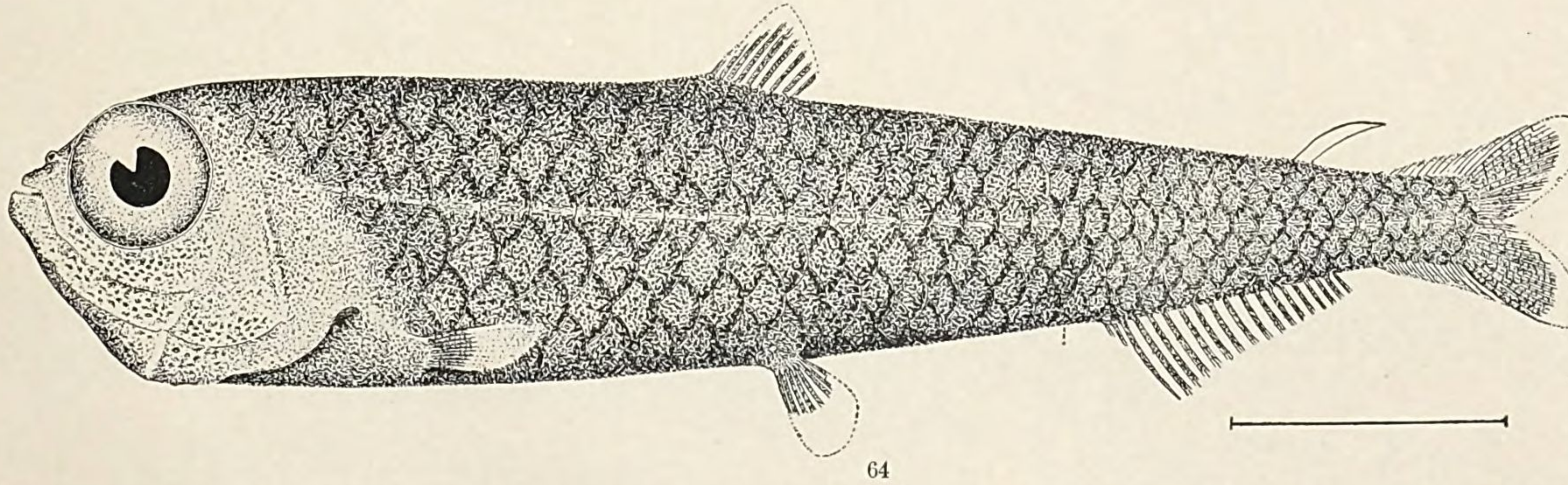
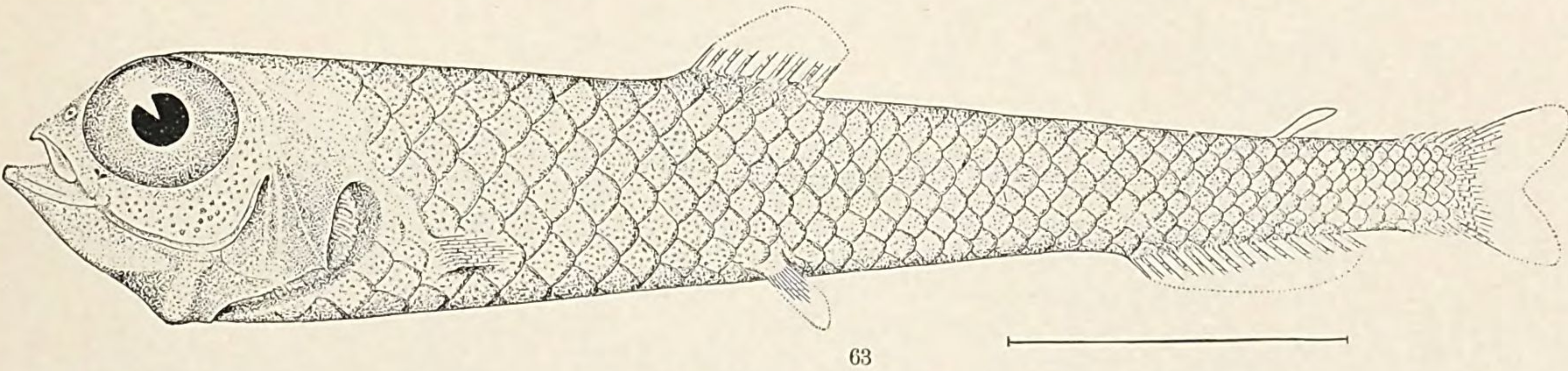
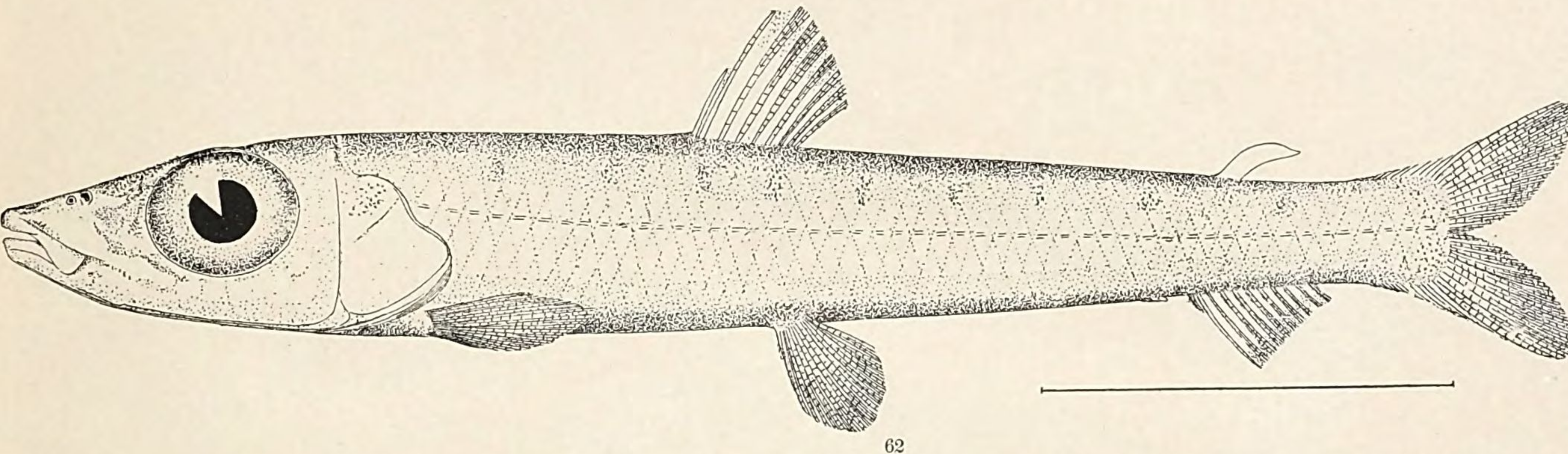
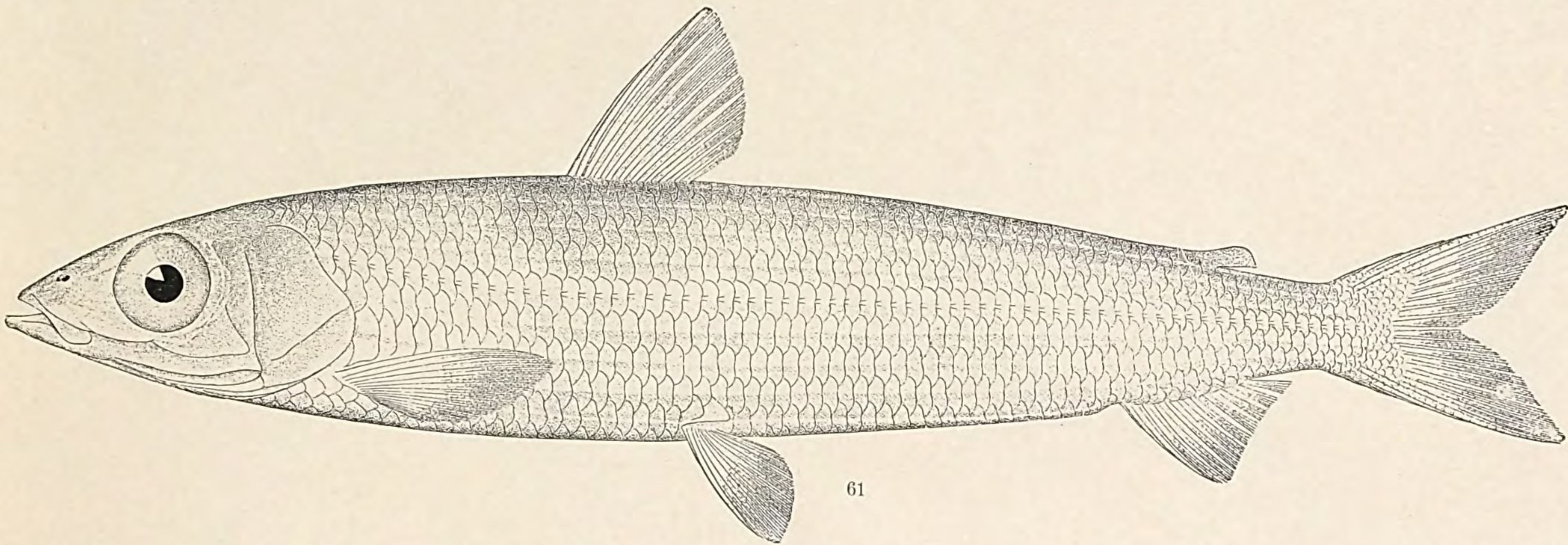
53. PLATYTROCTES APUS. (p. 46.)
55. AULASTOMATOMORPHA PHOSPHOROPS. (p. 50.)

54. ANOMALOPTERUS PINGUIS. (p. 49.)
56. LEPTODERMA MACROPS. (p. 49.)



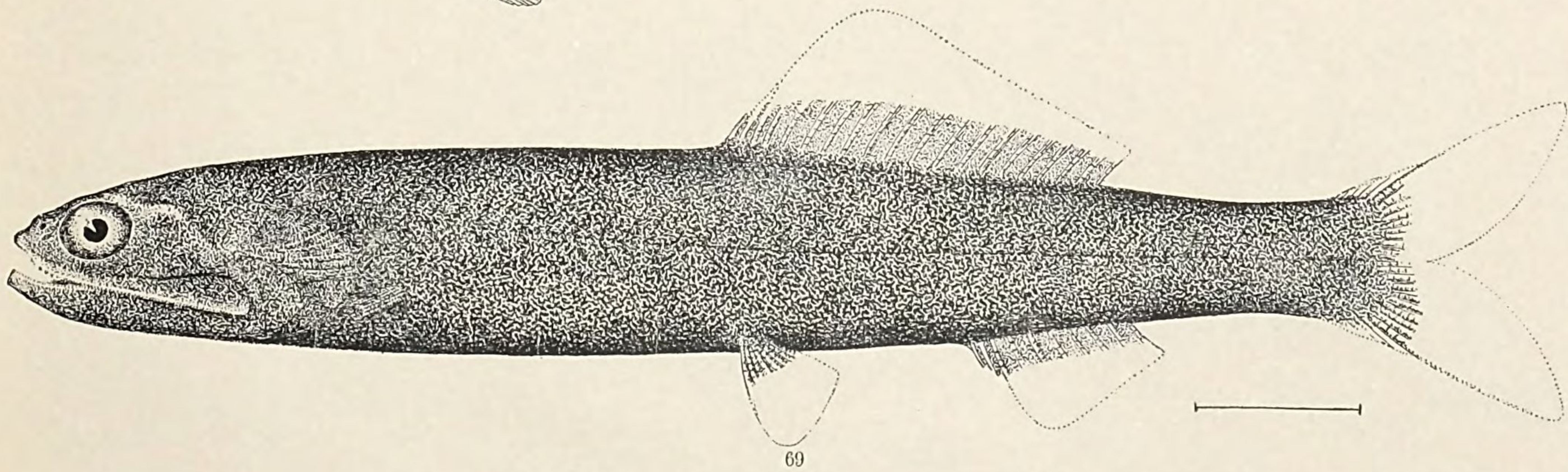
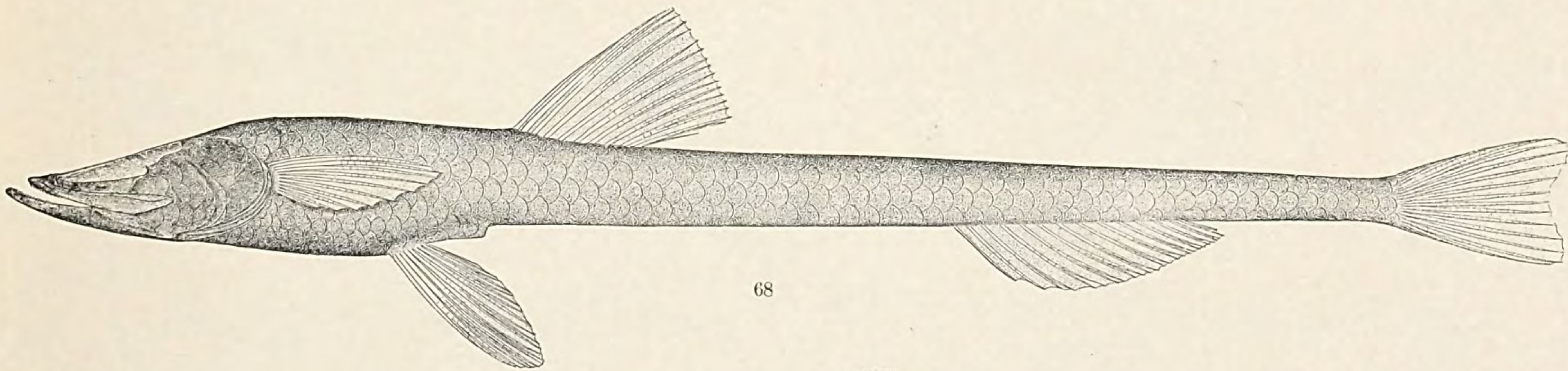
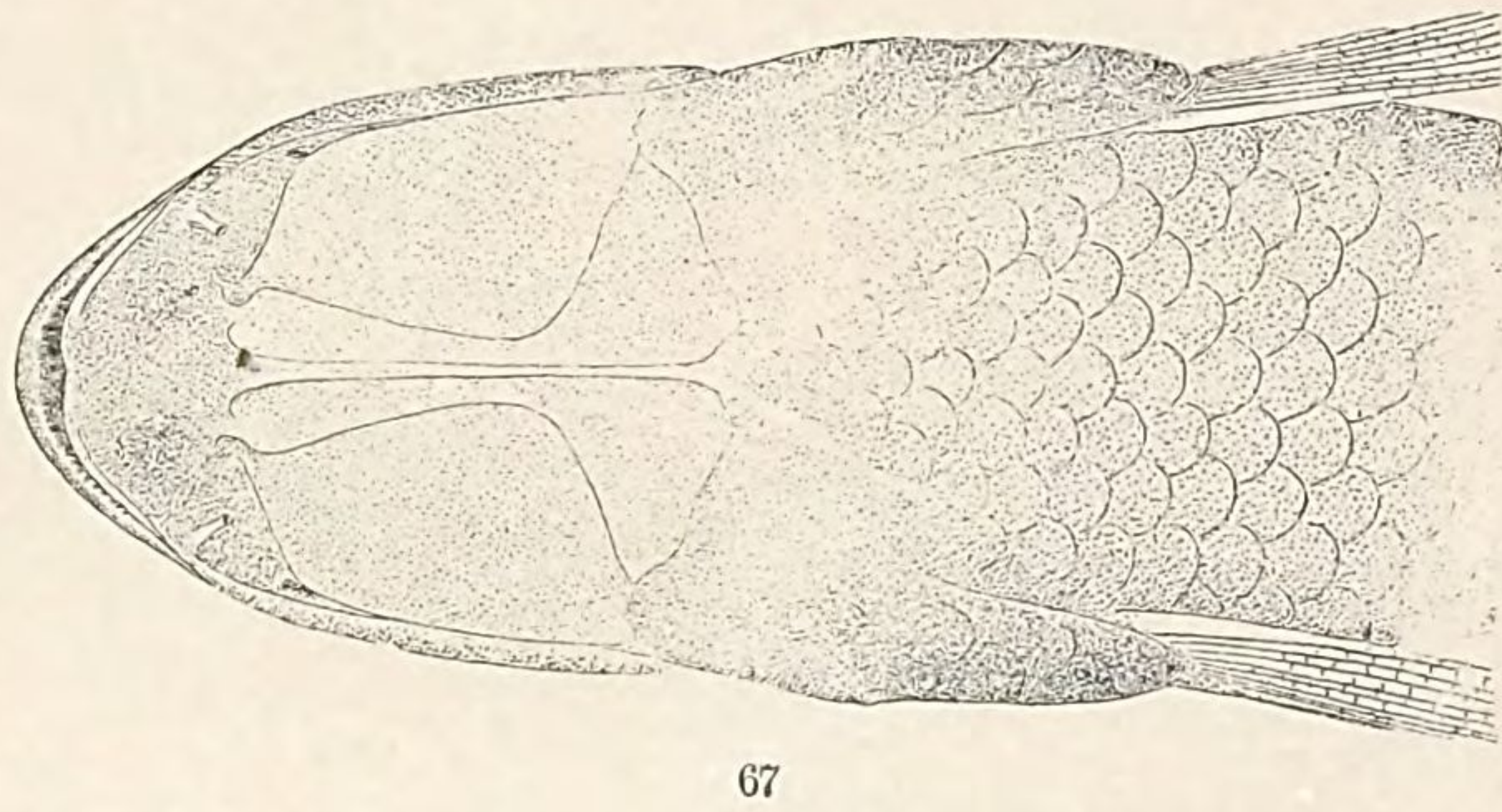
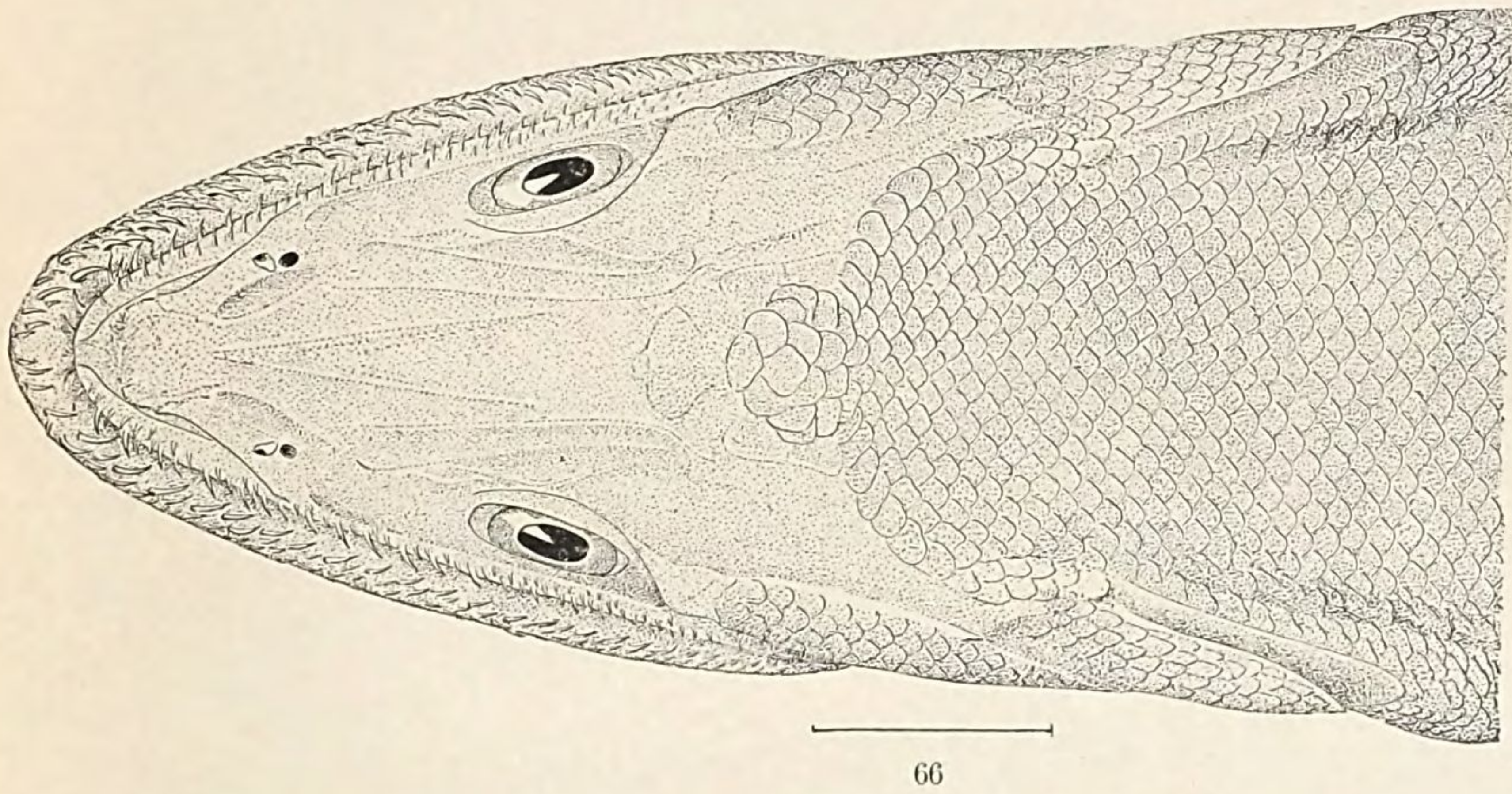
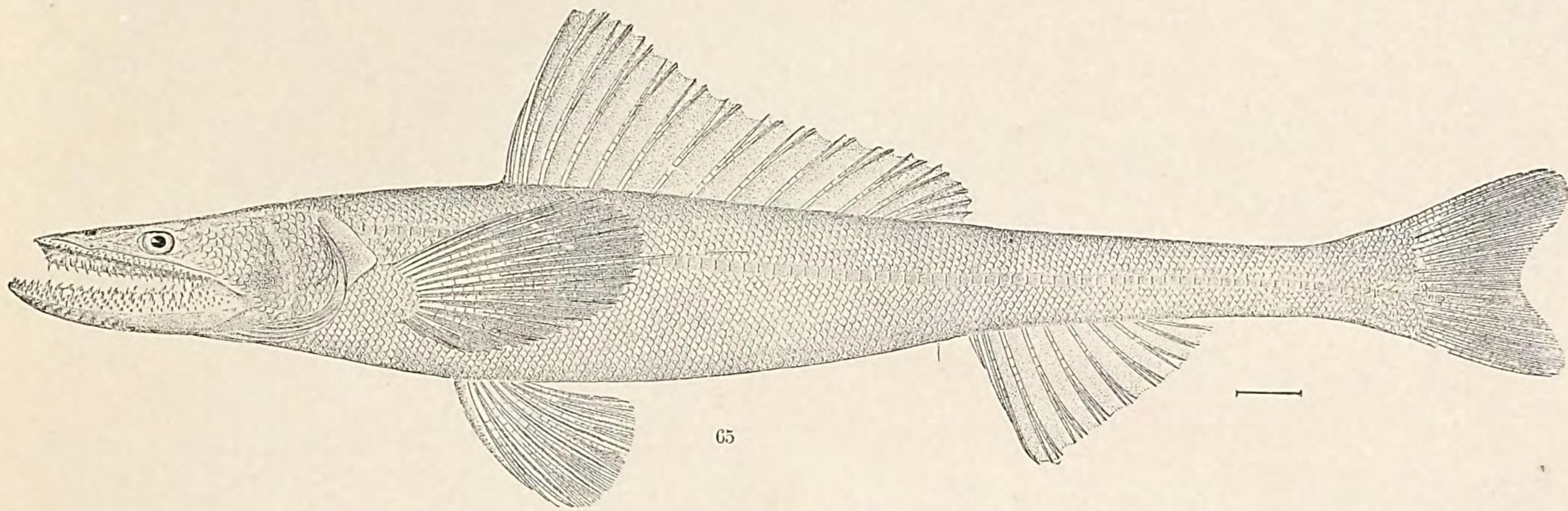
57. XENODERMICHTHYS NODULOSUS. (p. 46.)
59. MICROSTOMA ROTUNDATUM. (p. 53.)

58. ALEPOSOMUS SOCIALIS. (p. 48.)
60. HARPODON MACROCHIR. (p. 59.)



61. ARGENTINA SILUS. (p. 52.)
63. BATHYLAGUS EURYOPS. (p. 55.)

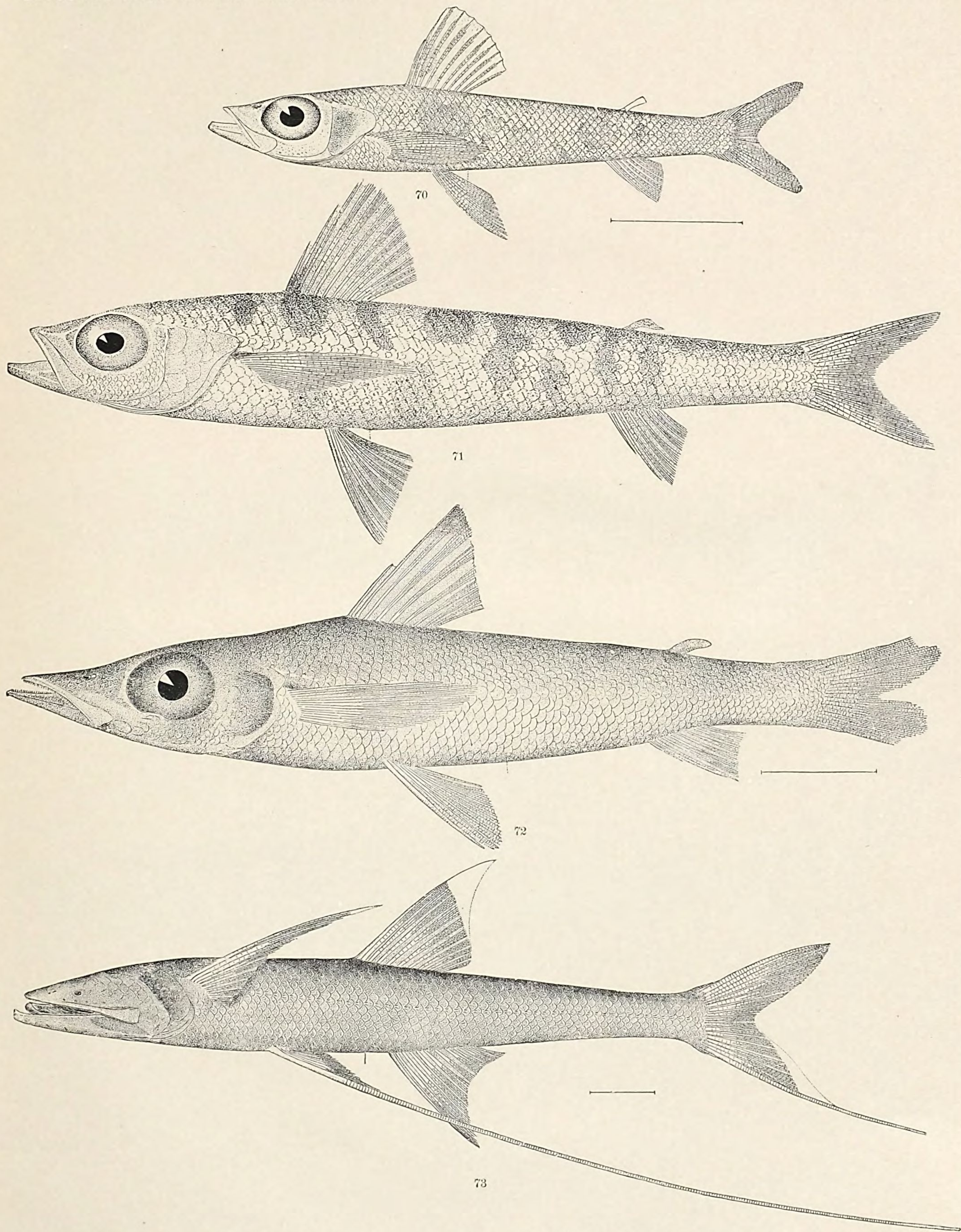
62. ARGENTINA STRIATA. (p. 52.)
64. BATHYLAGUS BENEDICTI. (p. 55.)



65, 66. BATHYSAURUS FEROX. (p. 58.)

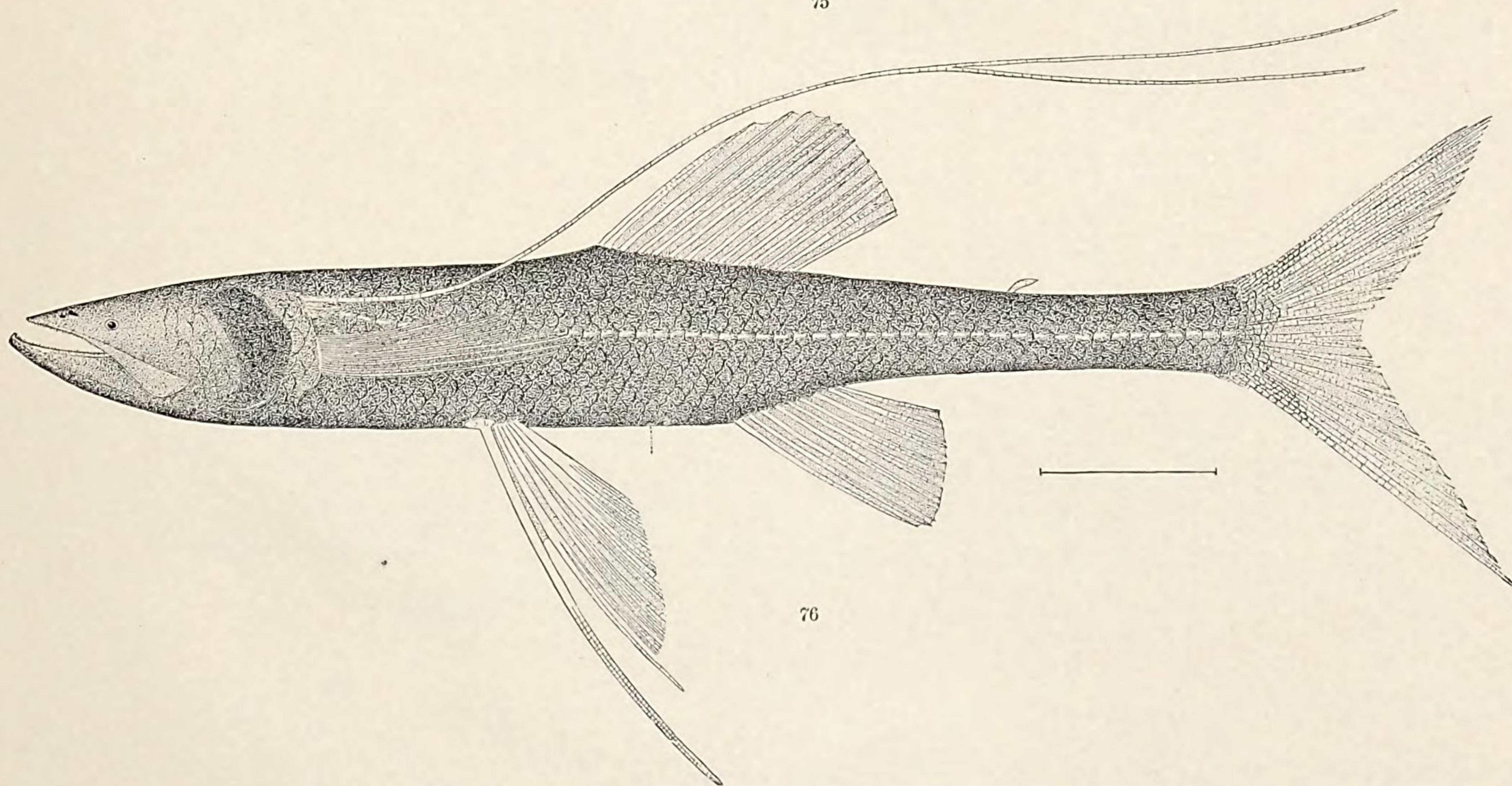
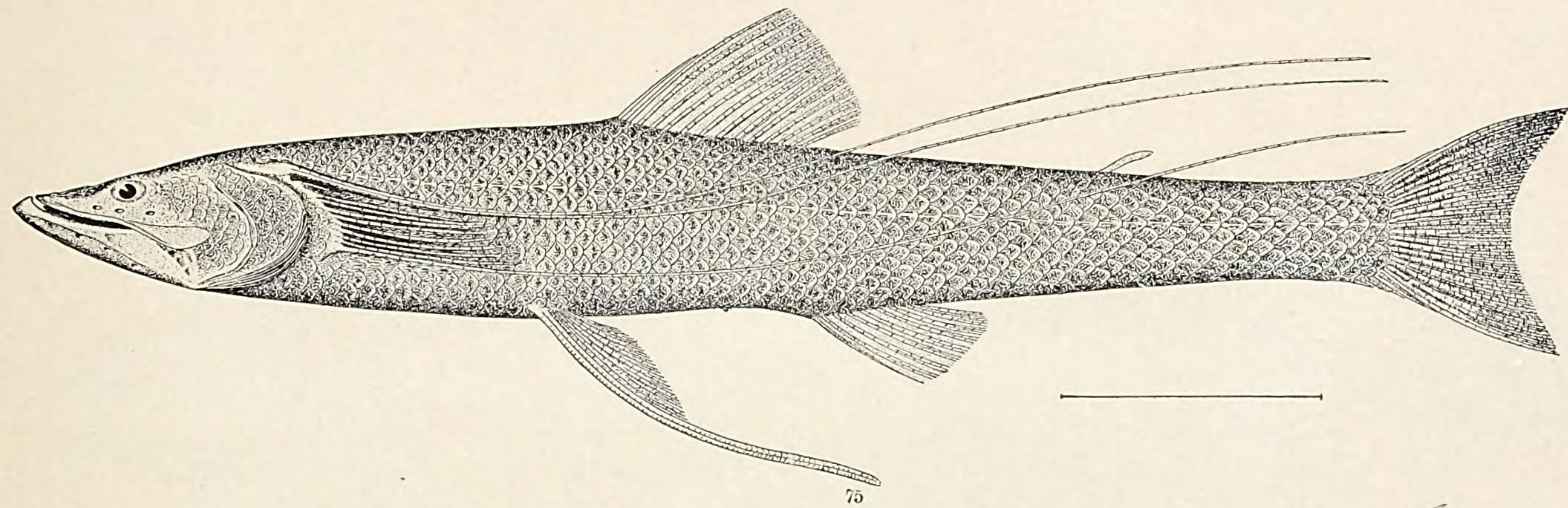
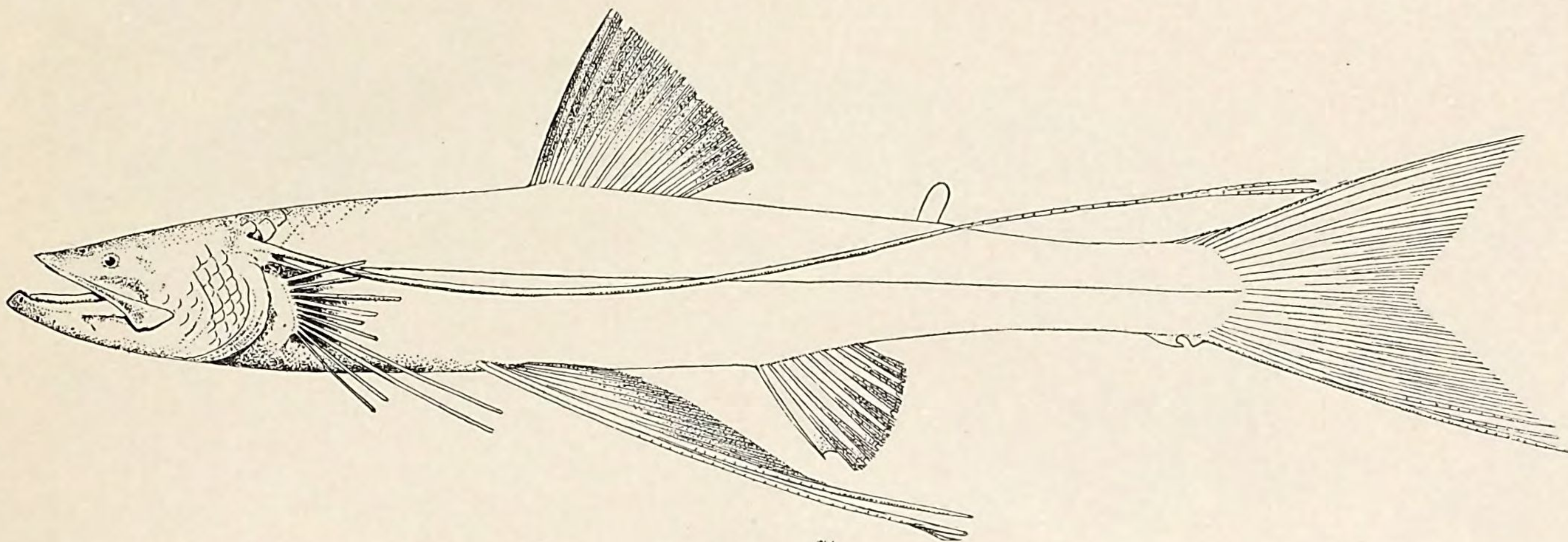
67, 68. IPNOPS MURRAYI. (p. 67.)

69. BATHYLACO NIGRICANS. (p. 57.)

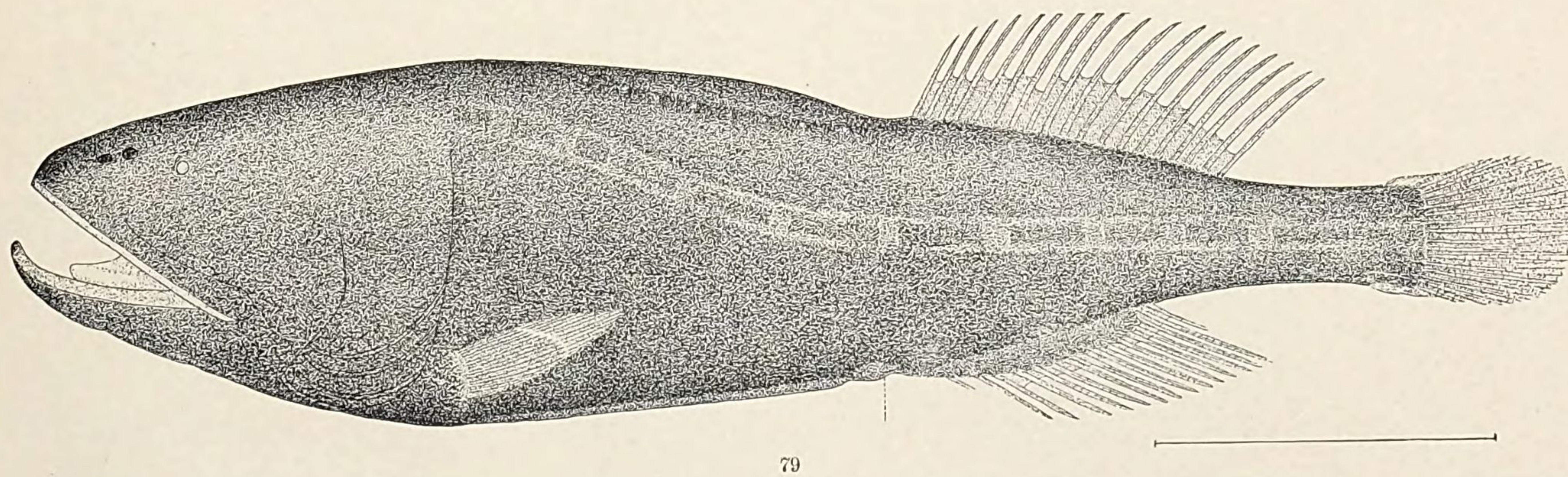
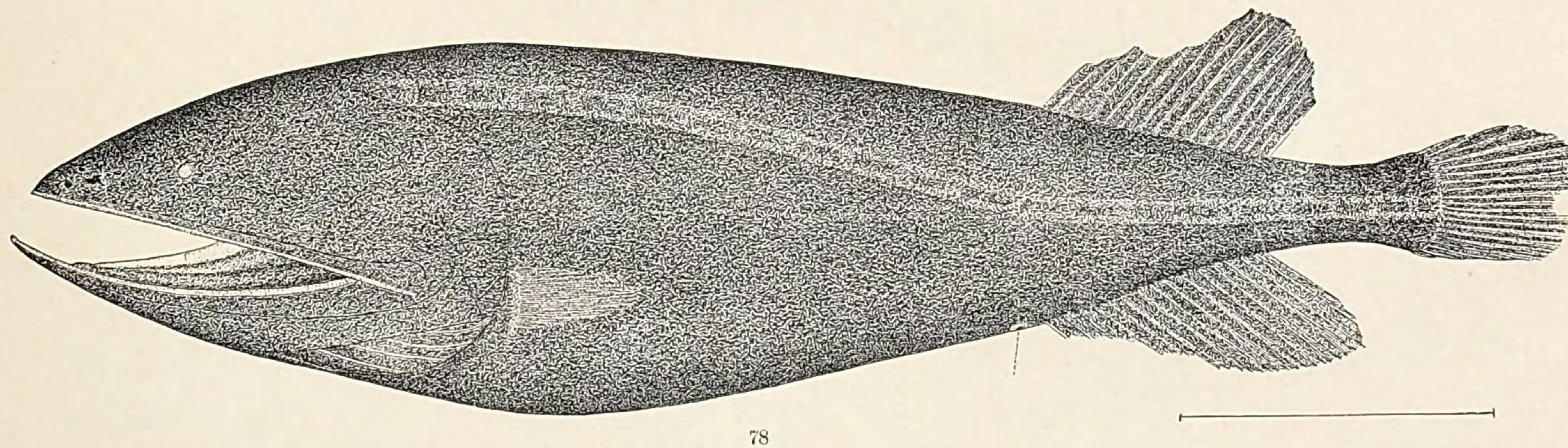
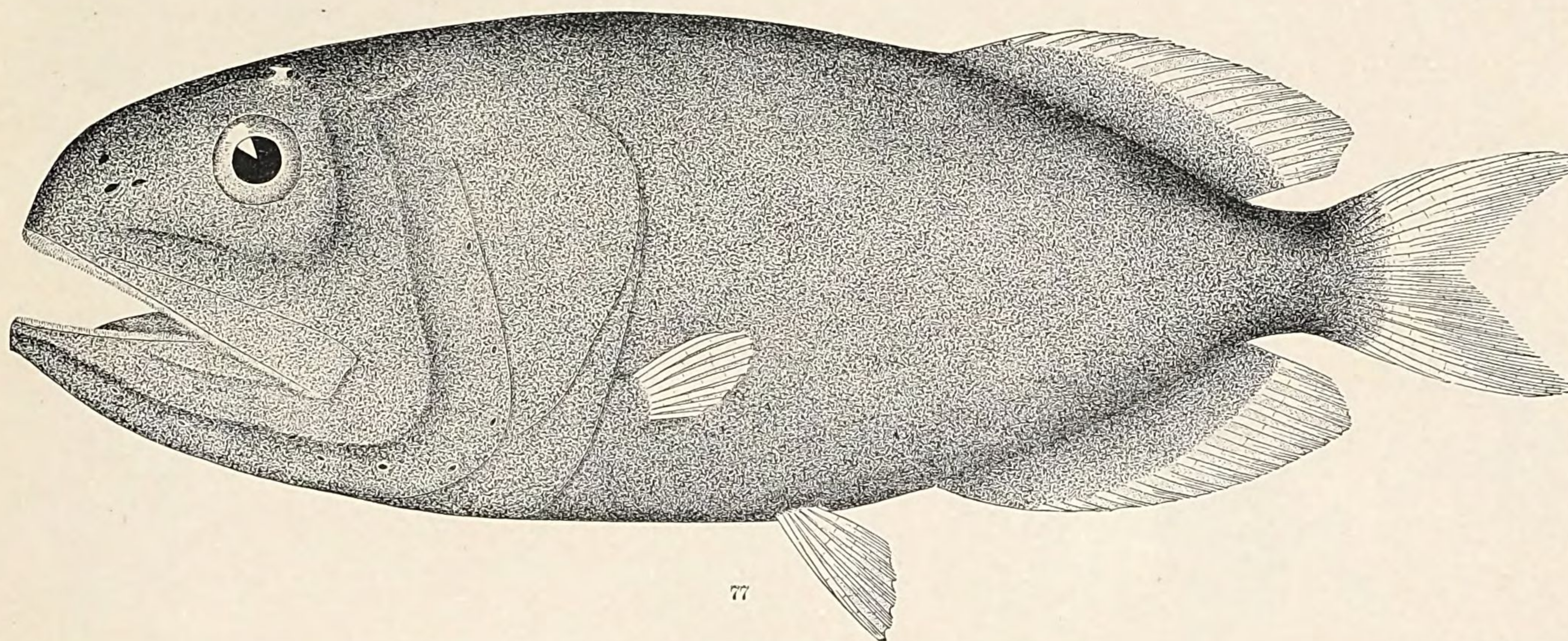


70. CHLOROPHTHALMUS AGASSIZII. (p. 60.)
72. CHLOROPHTHALMUS TRUCULENTUS. (p. 61.)

71. CHLOROPHTHALMUS CHALYBEIUS. (p. 60.)
73. BENTHOSAURUS GRALLATOR. (p. 62.)



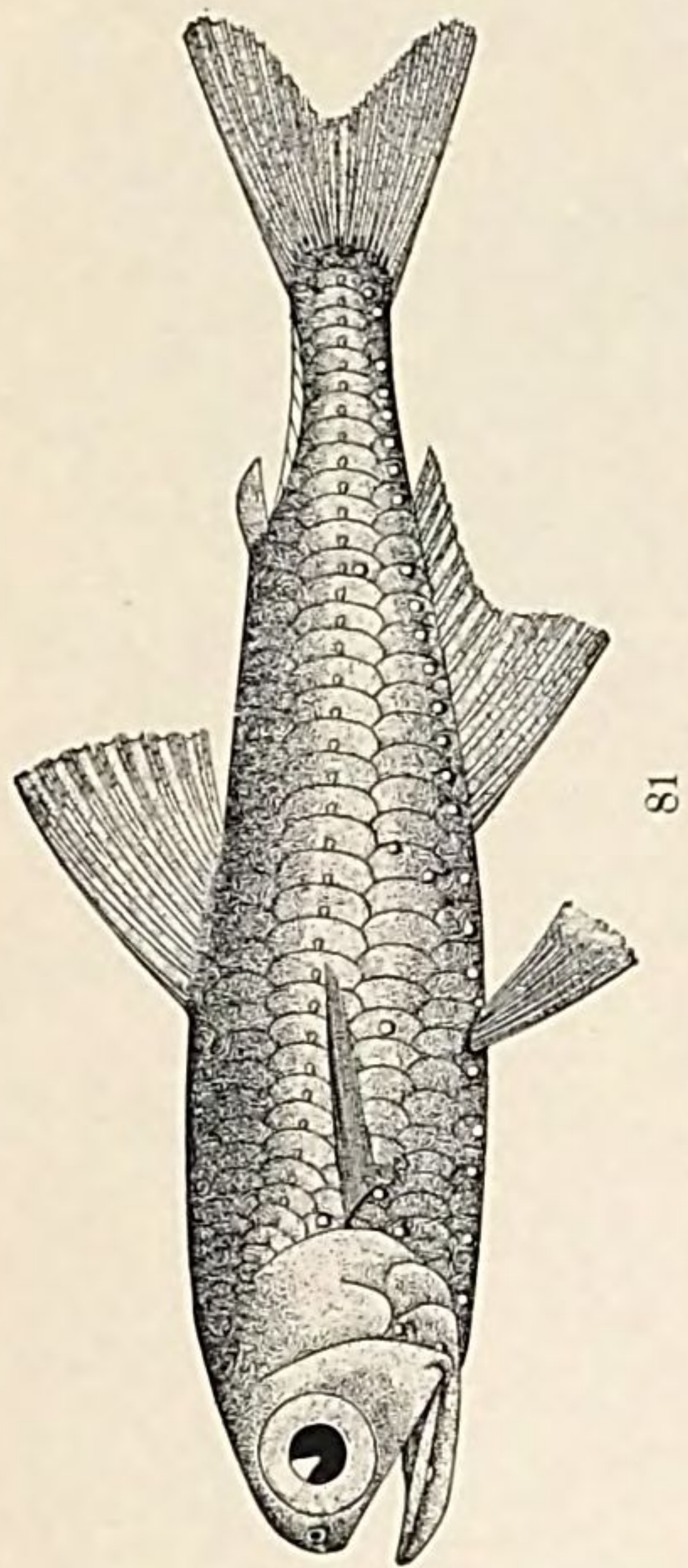
74. BATHYPTEROIS DUBIUS. (p. 64.) 75. BATHYPTEROIS QUADRIFILIS. (p. 65.)
76. BATHYPTEROIS LONGIPES. (p. 66.)



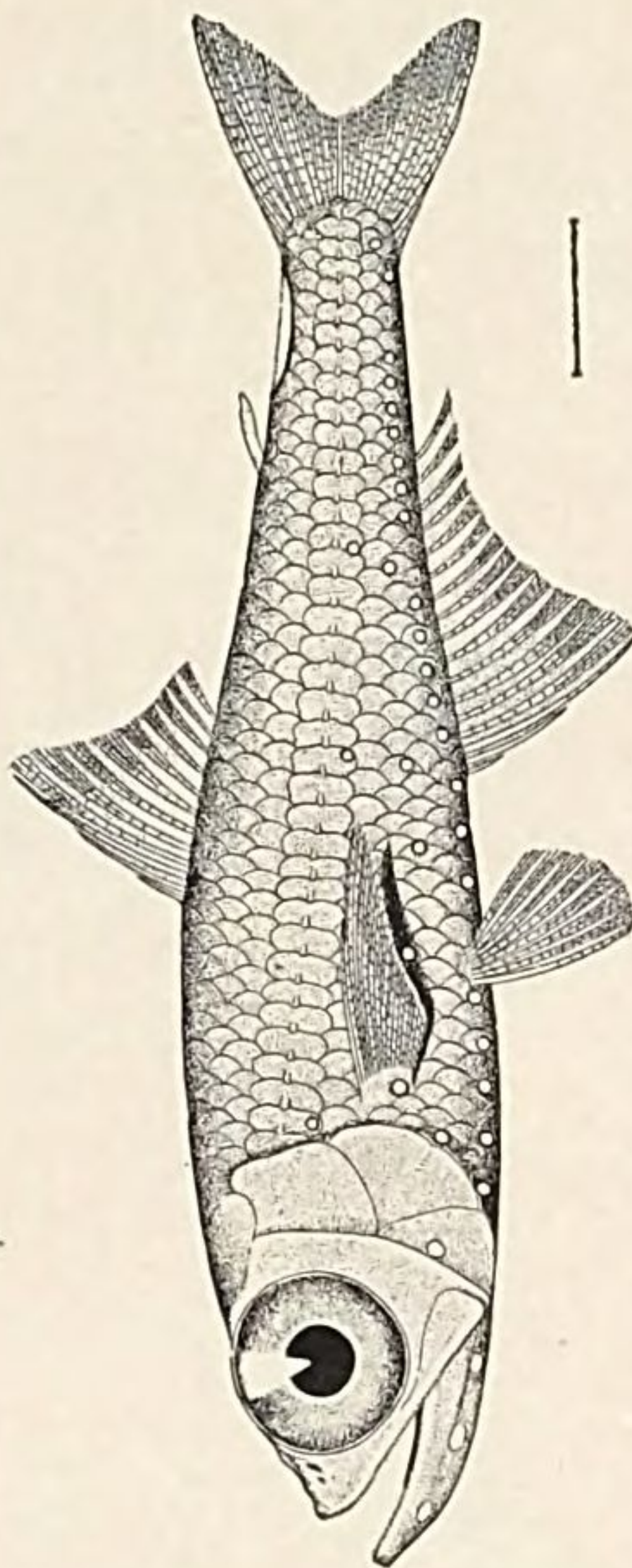
77. RONDELETIA BICOLOR. (p. 68.)

78. CETOMIMUS GILLII. (p. 69.)

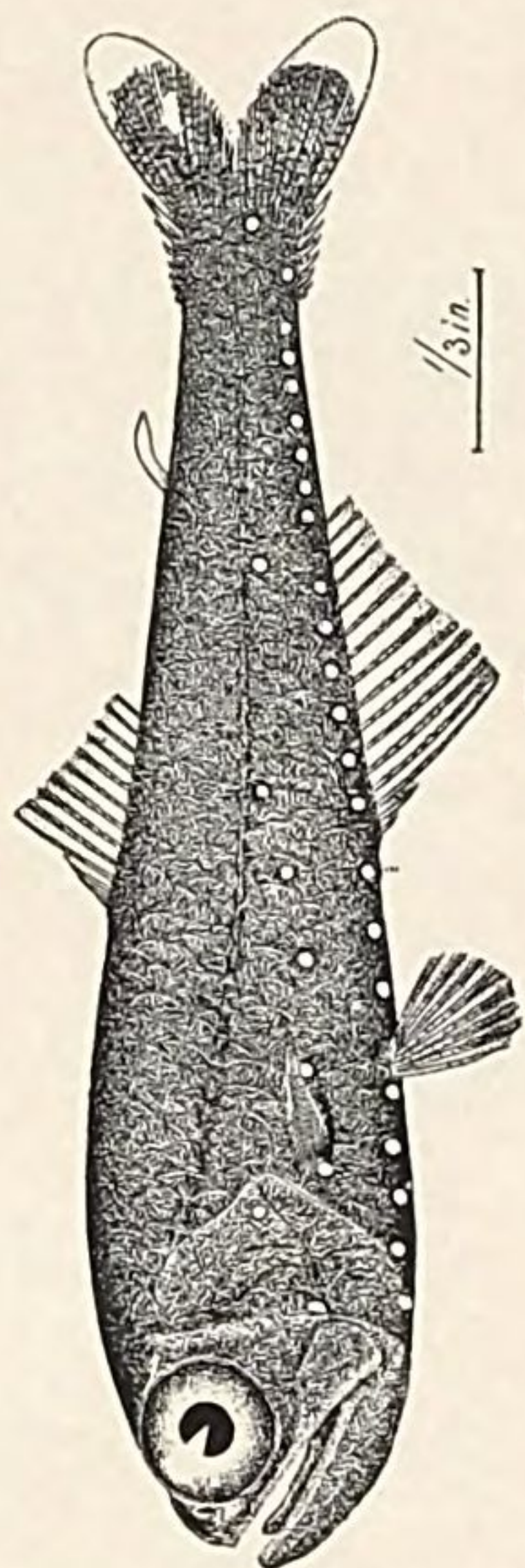
79. CETOMIMUS STORERI. (p. 69.)



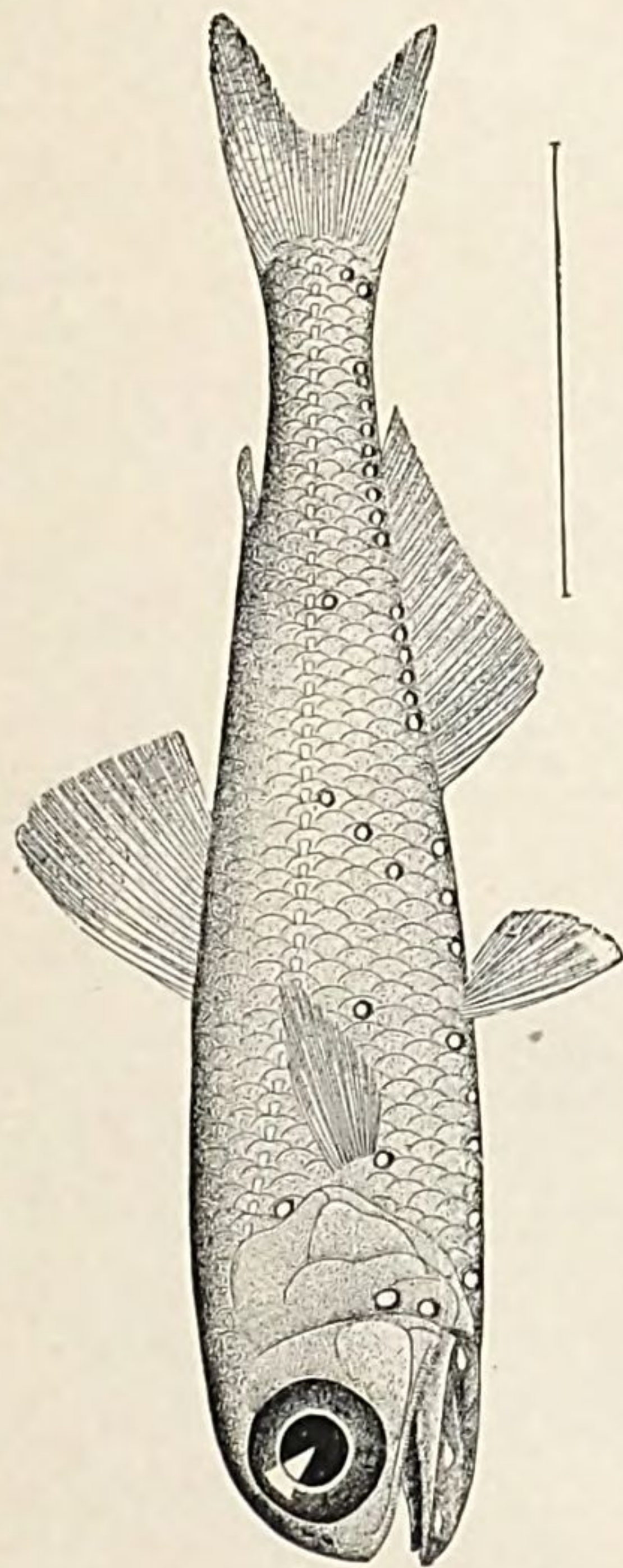
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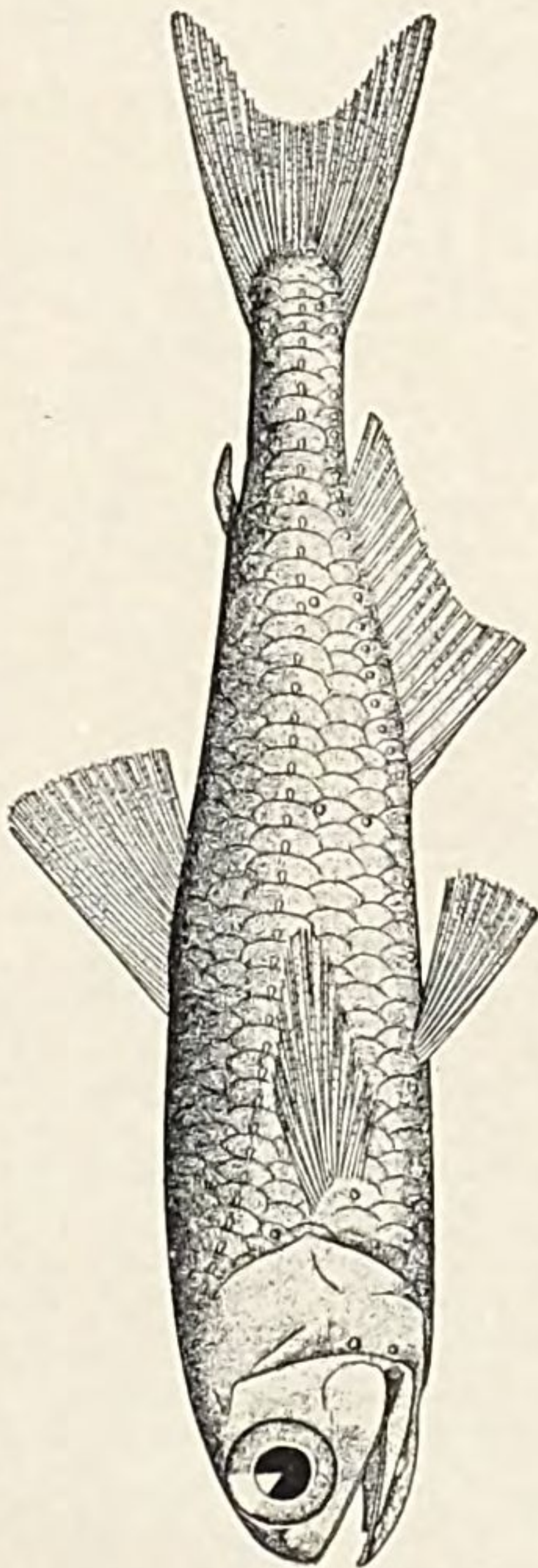
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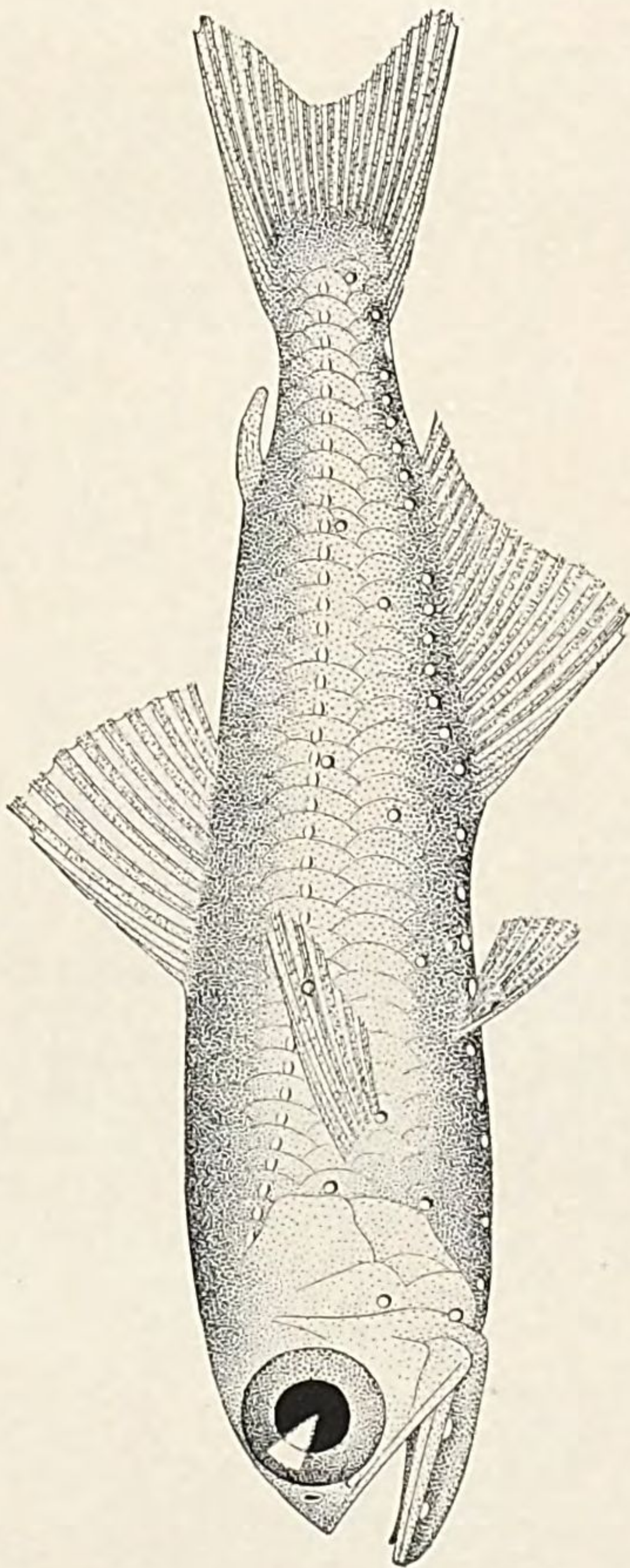
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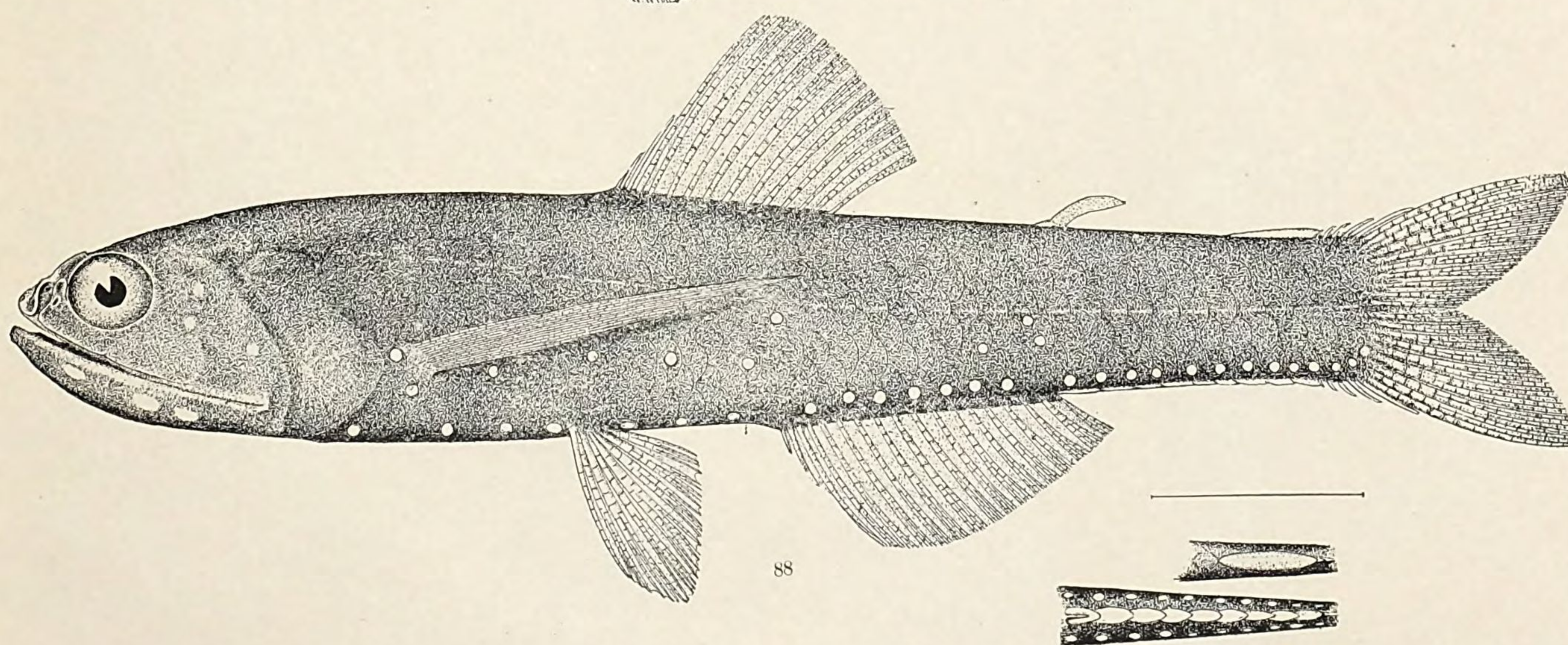
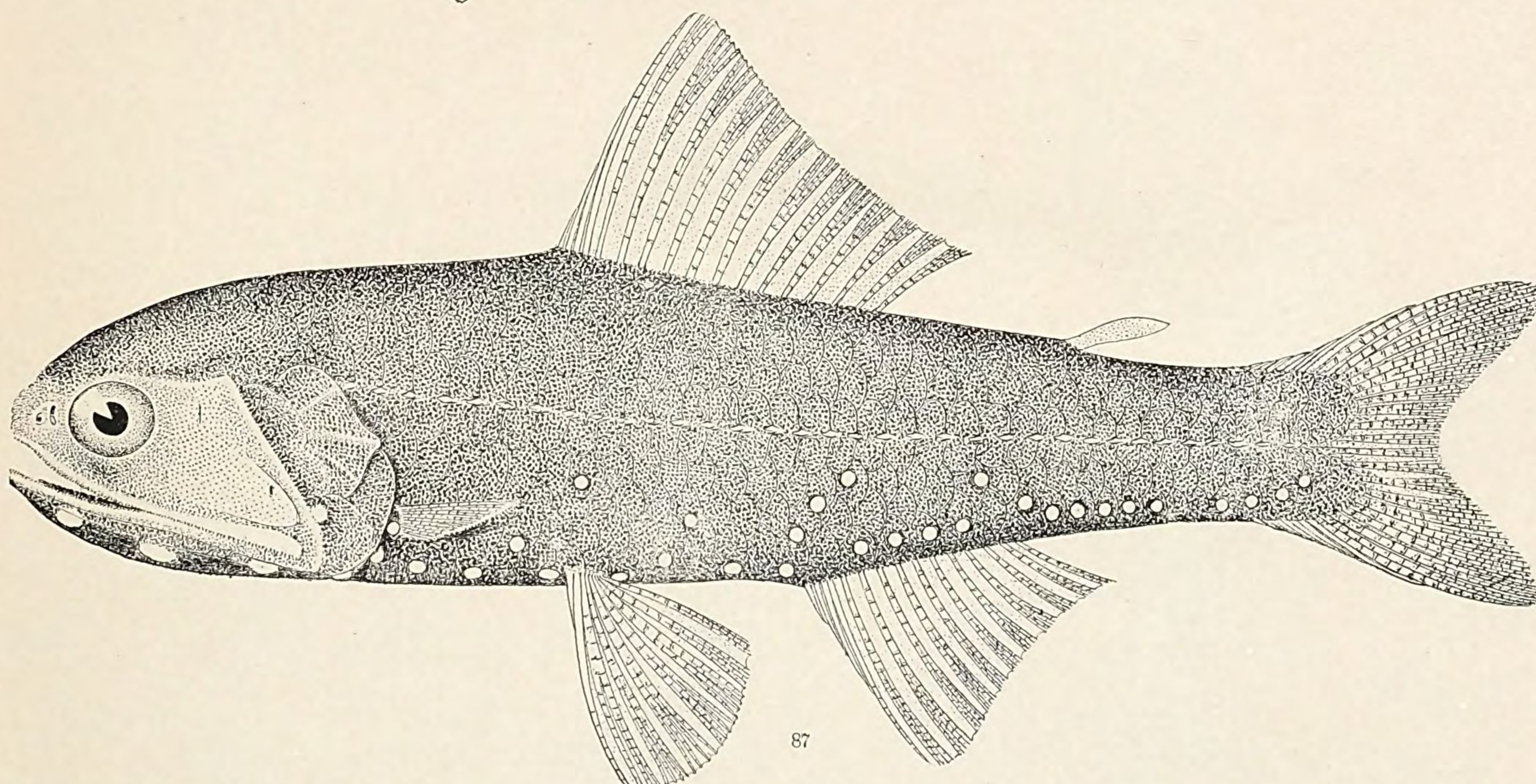
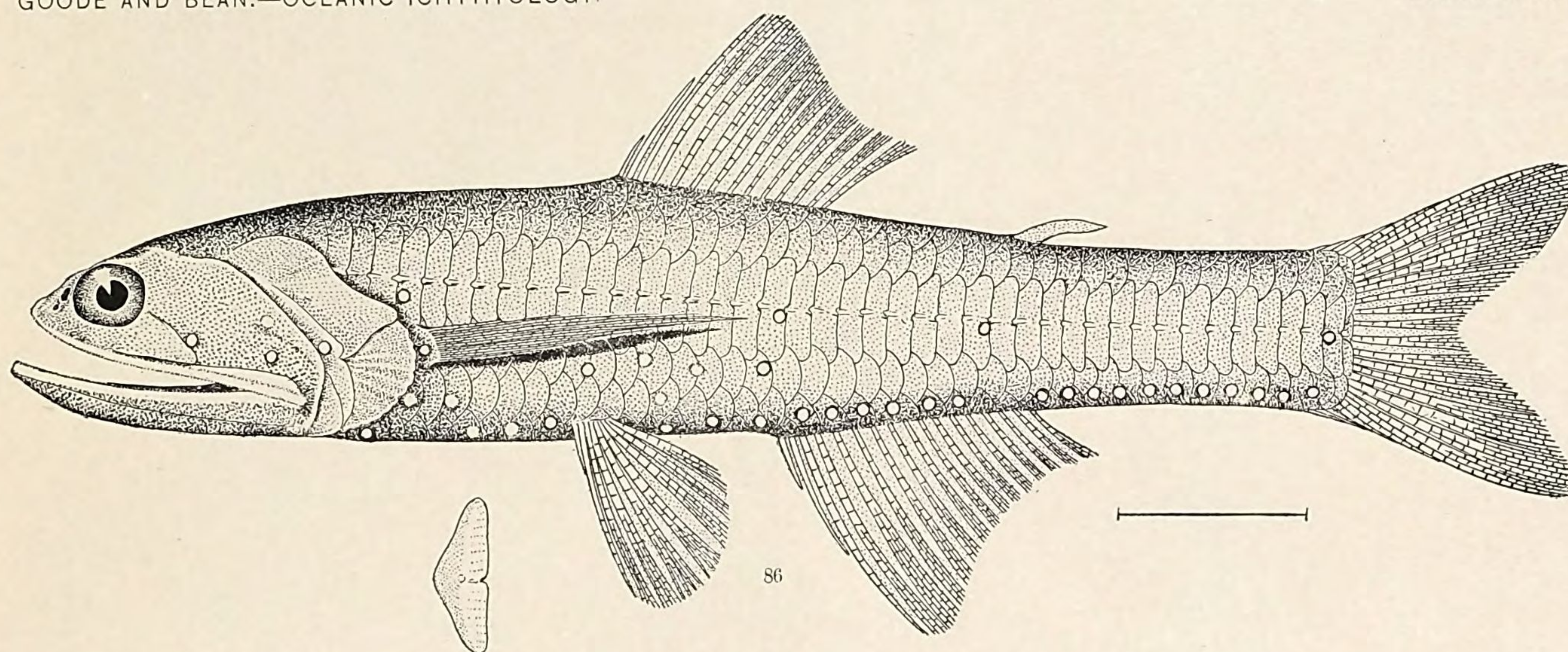
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81. MYCTOPHUM OPALINUM. (p. 72.)
83. MYCTOPHUM BENOITI. (p. 74.)
85. BENTHOSEMA MÜLLERI. (p. 76.)

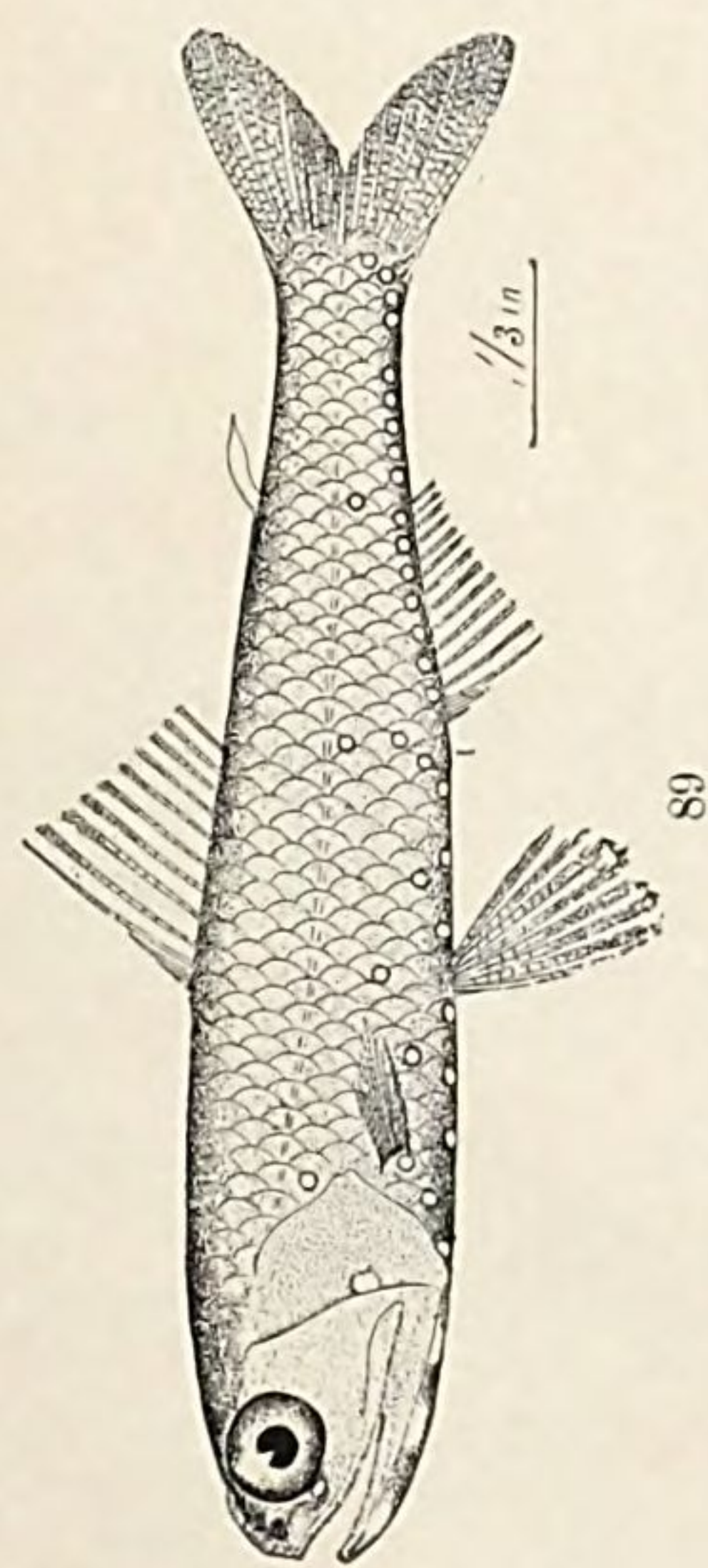
80. MYCTOPHUM PUNCTATUM. (p. 71.)
82. MYCTOPHUM HUMBOLDTI. (p. 73.)
84. MYCTOPHUM REMIGER. (p. 75.)



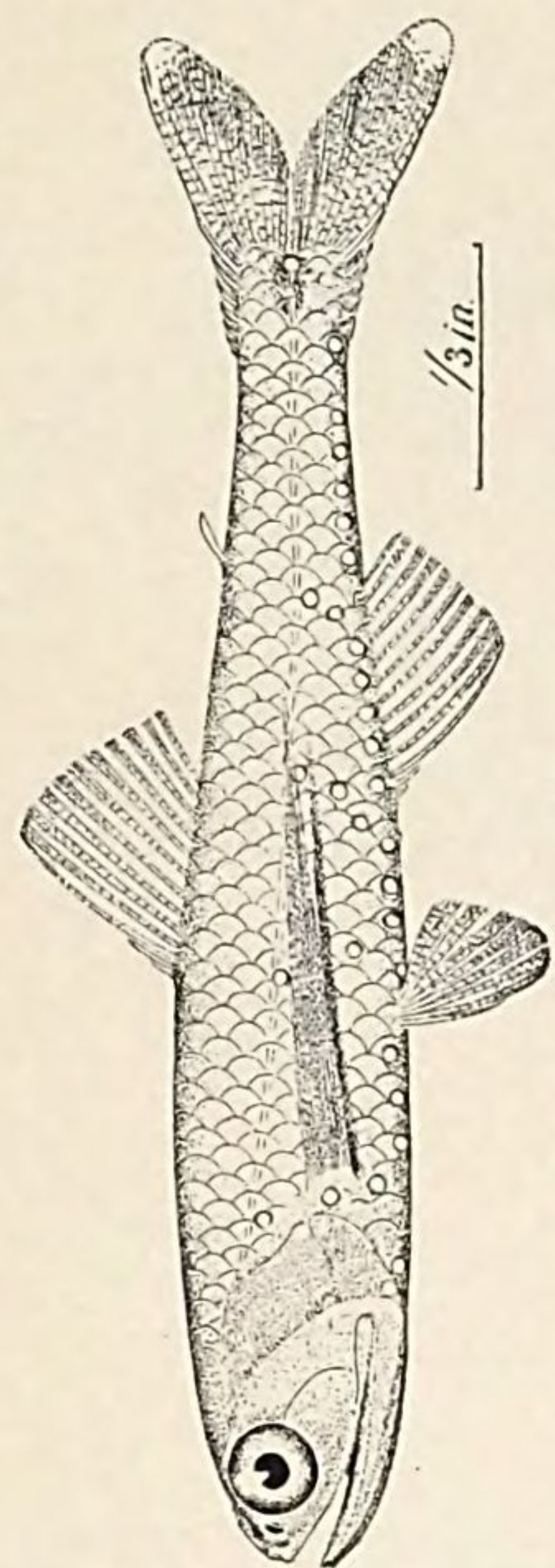
86. *LAMPANYCTUS CROCODILUS*. (p. 79.)

88. *LAMPANYCTUS GEMMIFER*. (p. 80.)

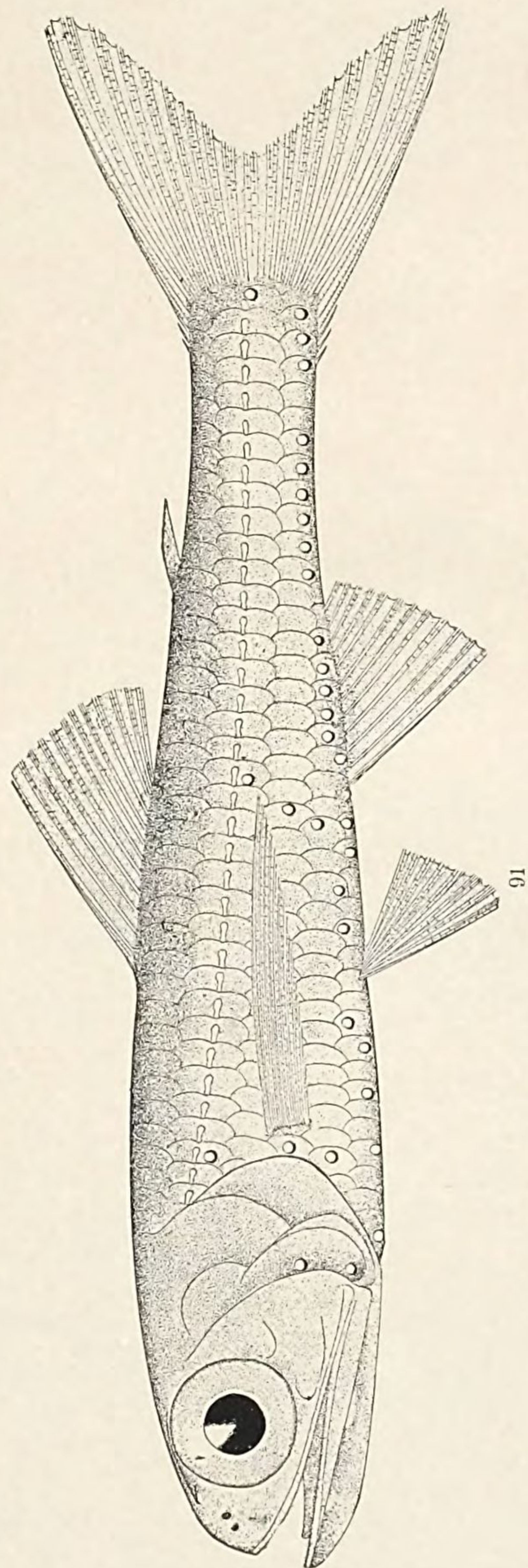
87. *LAMPANYCTUS GEMELLARII*. (p. 80.)



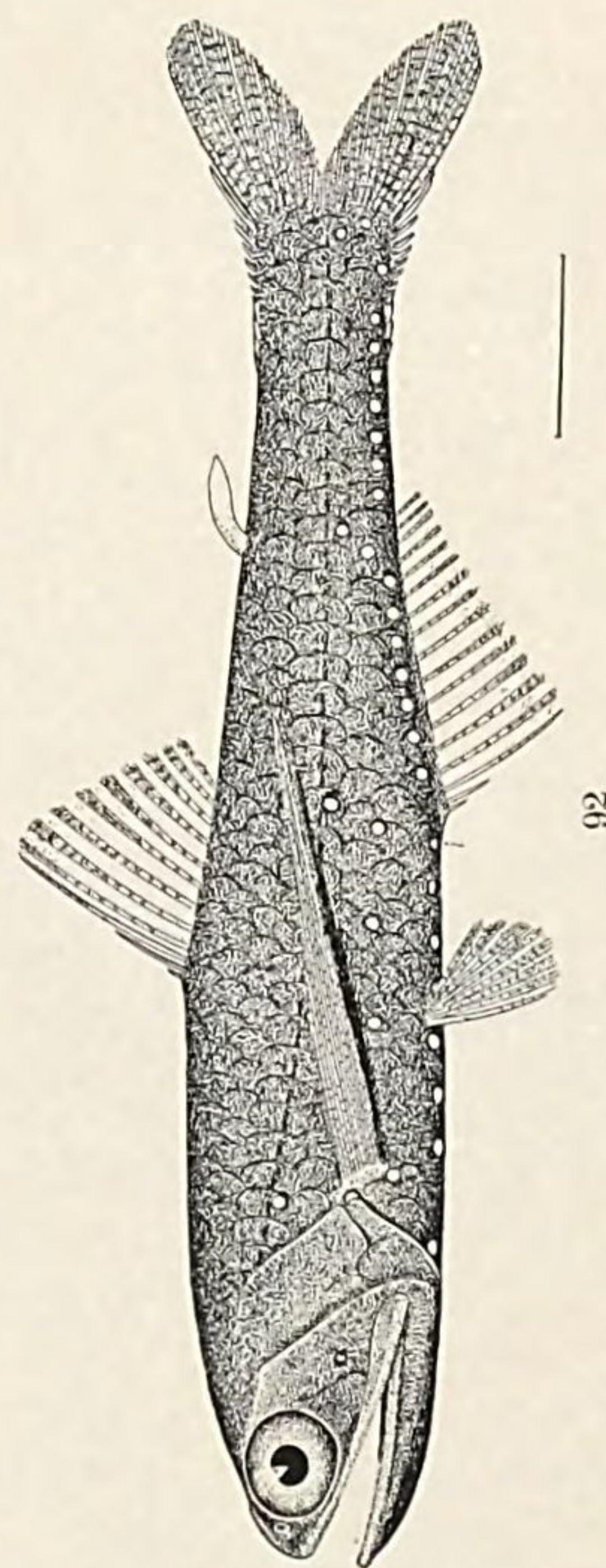
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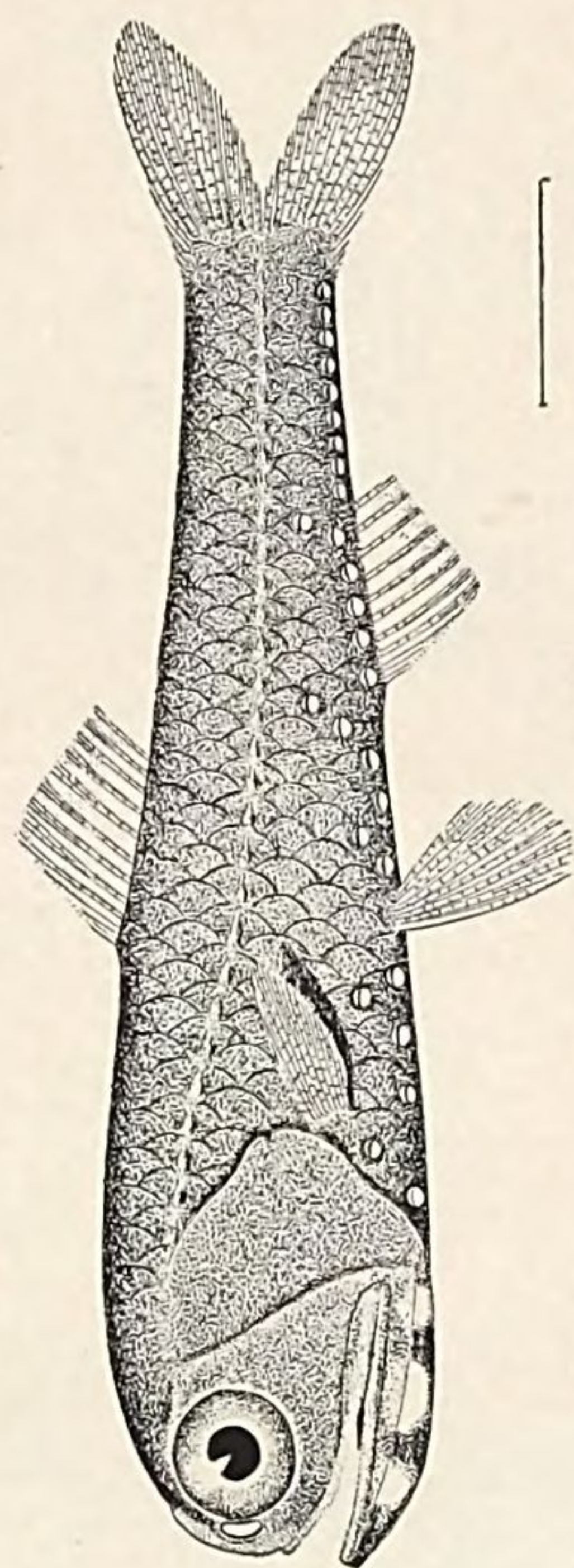
90



91



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93

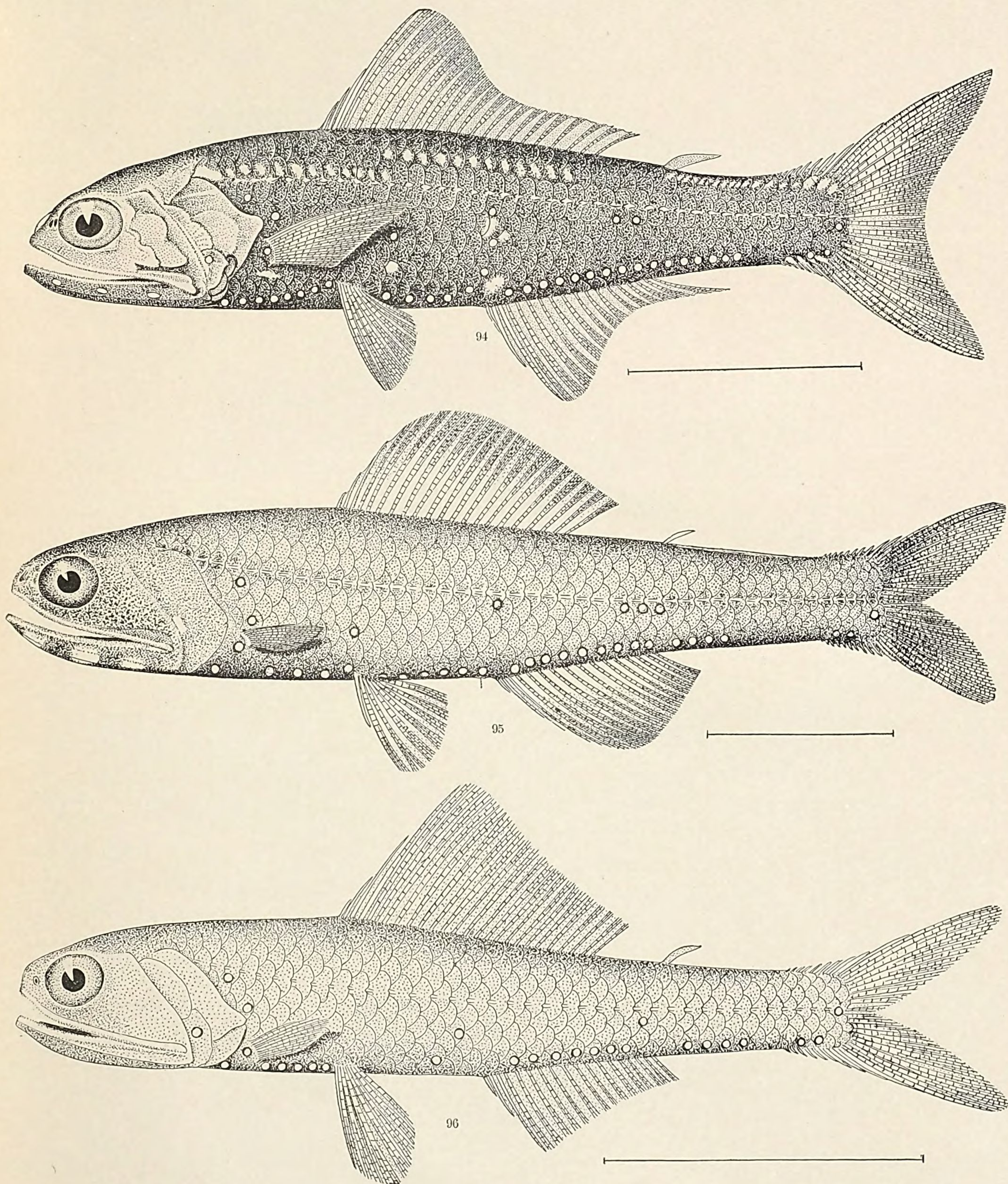
89. LAMPANYCTUS LACERTA. (p. 81.)

92. LAMPANYCTUS ALATUS. (p. 79.)

91. CERATOSCOPELUS MADERENSIS. (p. 82.)

90. LAMPANYCTUS GÜNTHERI. (p. 79.)

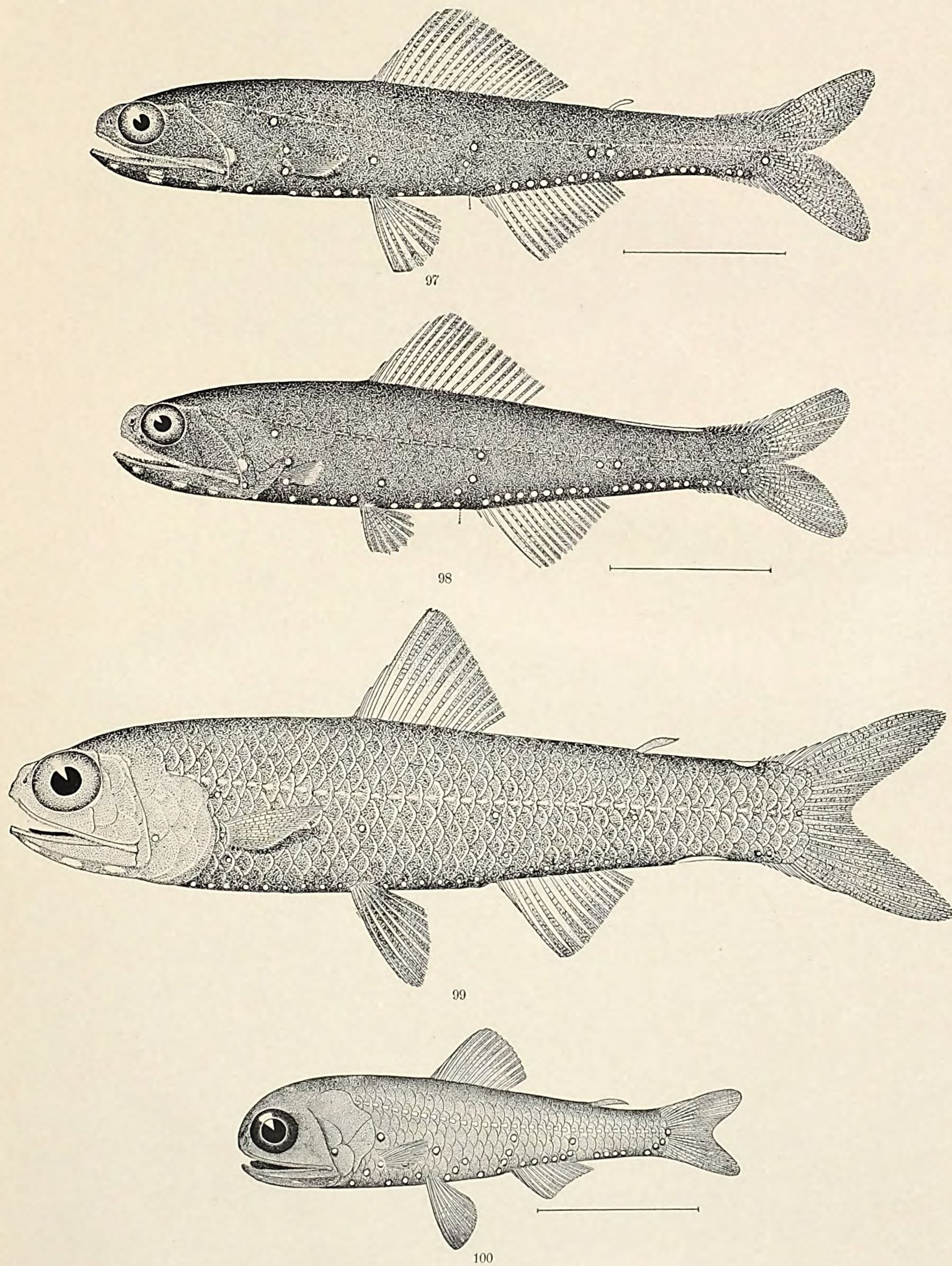
93. DIAPHUS THETA. (p. 89)



94. NOTOSCOPELUS RESPLENDENS. (p. 83.)

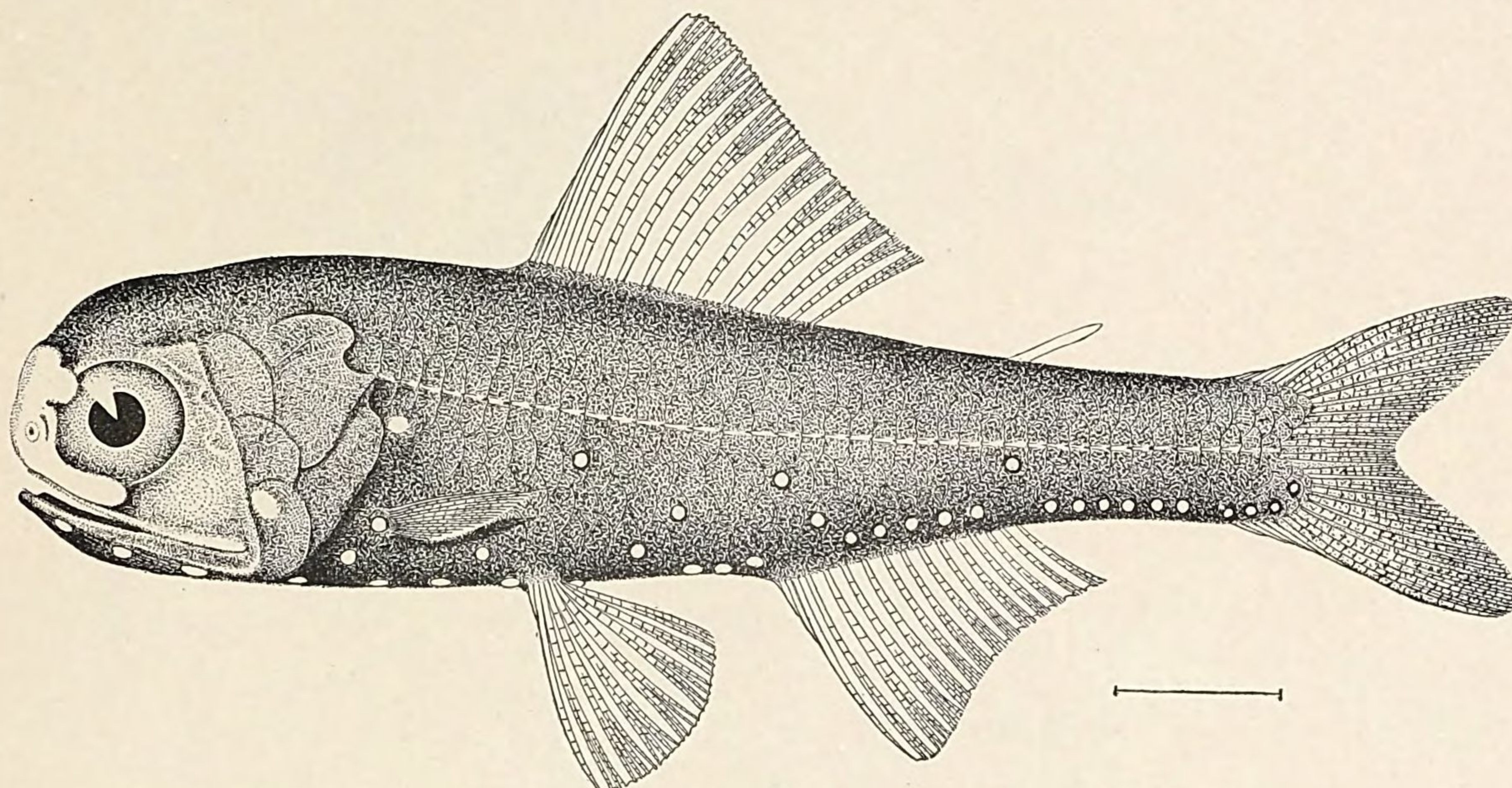
95. NOTOSCOPELUS CASTANEUS. (p. 84.)

96. NOTOSCOPELUS CAUDISPINOSUS. (p. 84.)

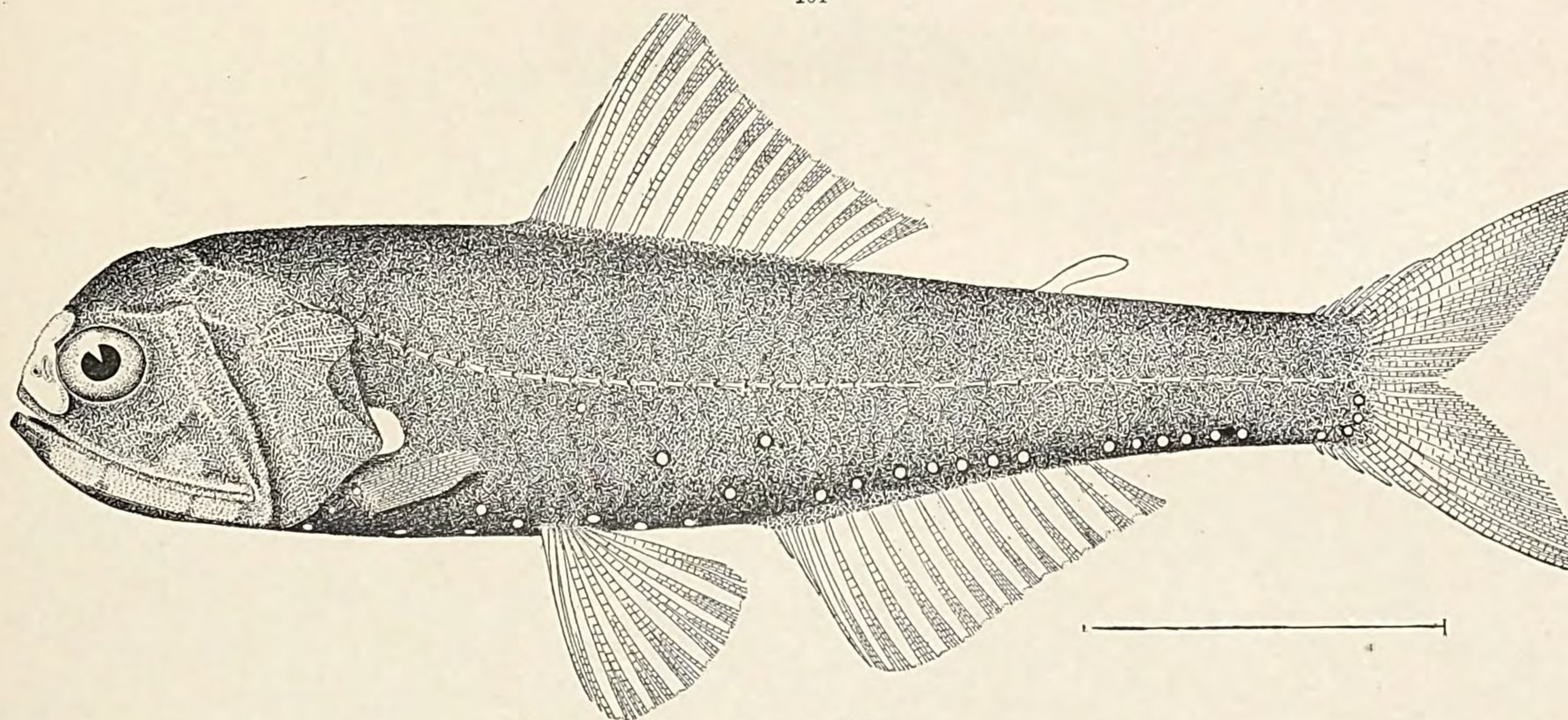


97. NOTOSCOPELUS QUERCINUS. (p. 83.)
99. LAMPADENA SPECULIGERA. (p. 83.)

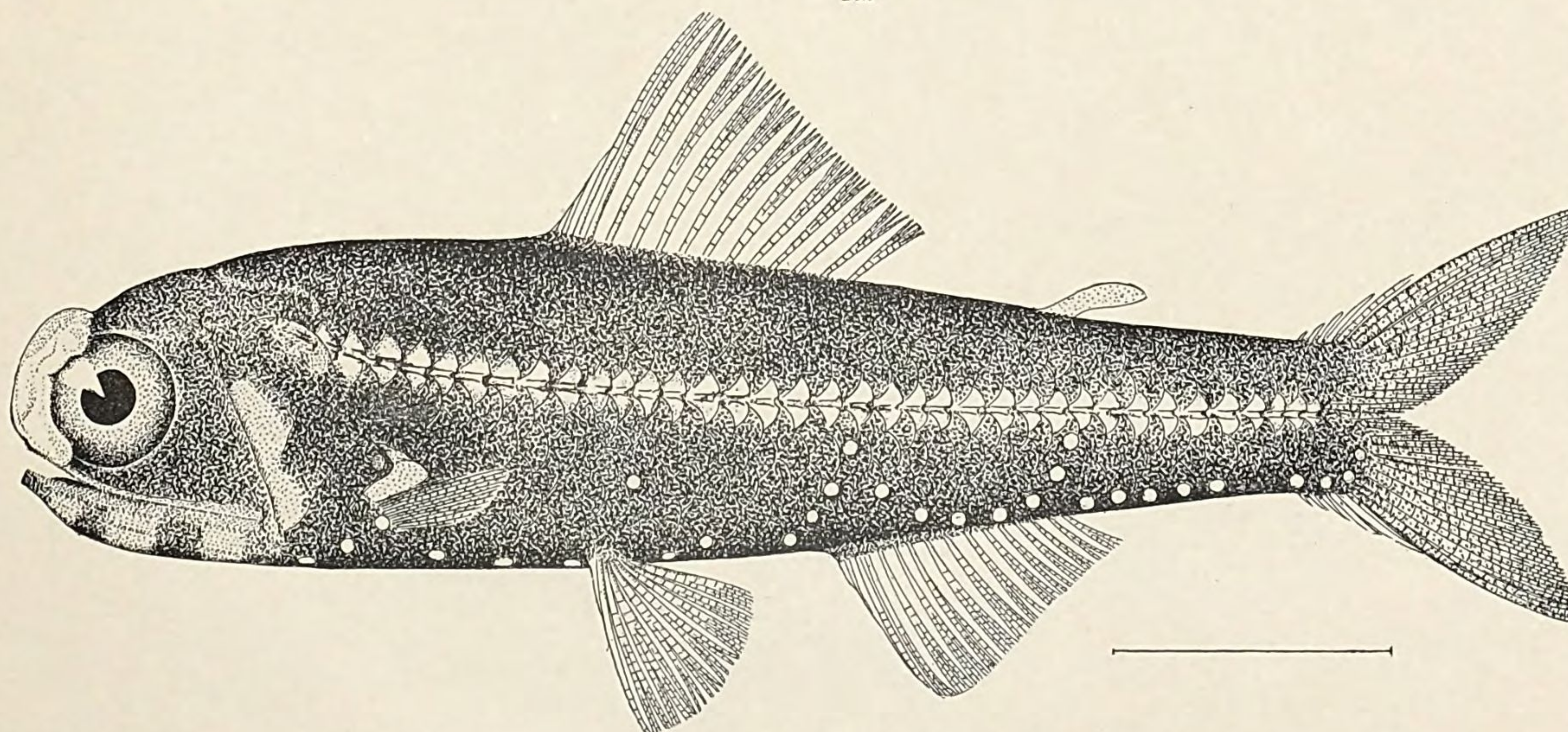
98. NOTOSCOPELUS MARGARITIFERUS. (p. 84.)
100. COLLETTIA RAFINESQUEI. (p. 88.)



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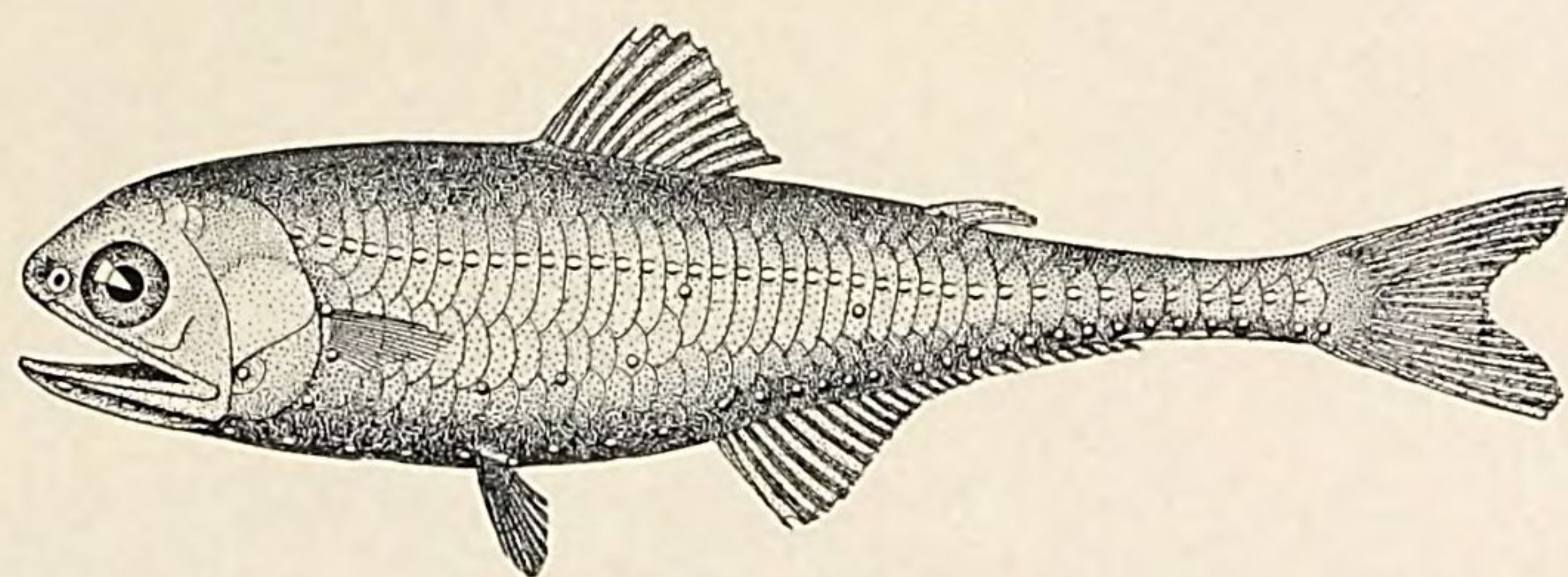


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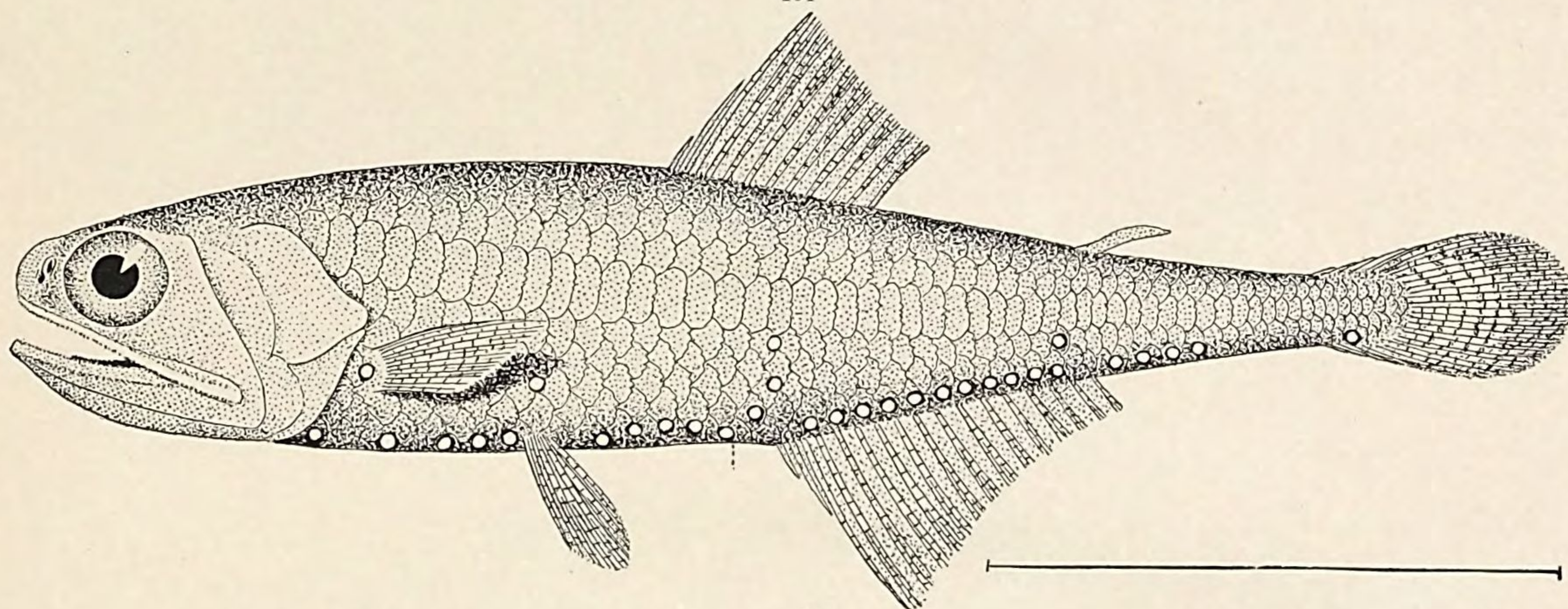


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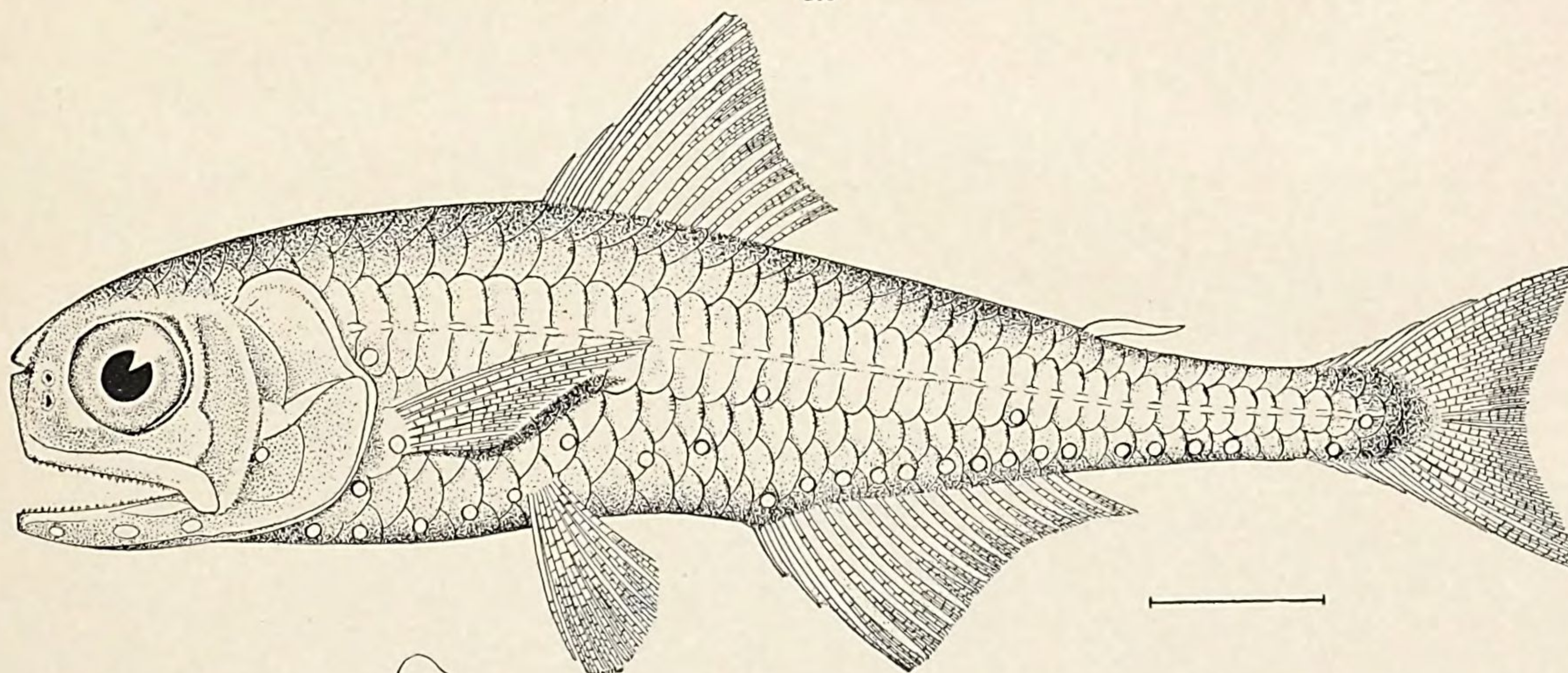
101. *ÆTHOPRORA METOPOCLAMPA*. (p. 86.)
102. *ÆTHOPRORA LUCIDA*. (p. 87.)
103. *ÆTHOPRORA EFFULGENS*. (p. 87.)



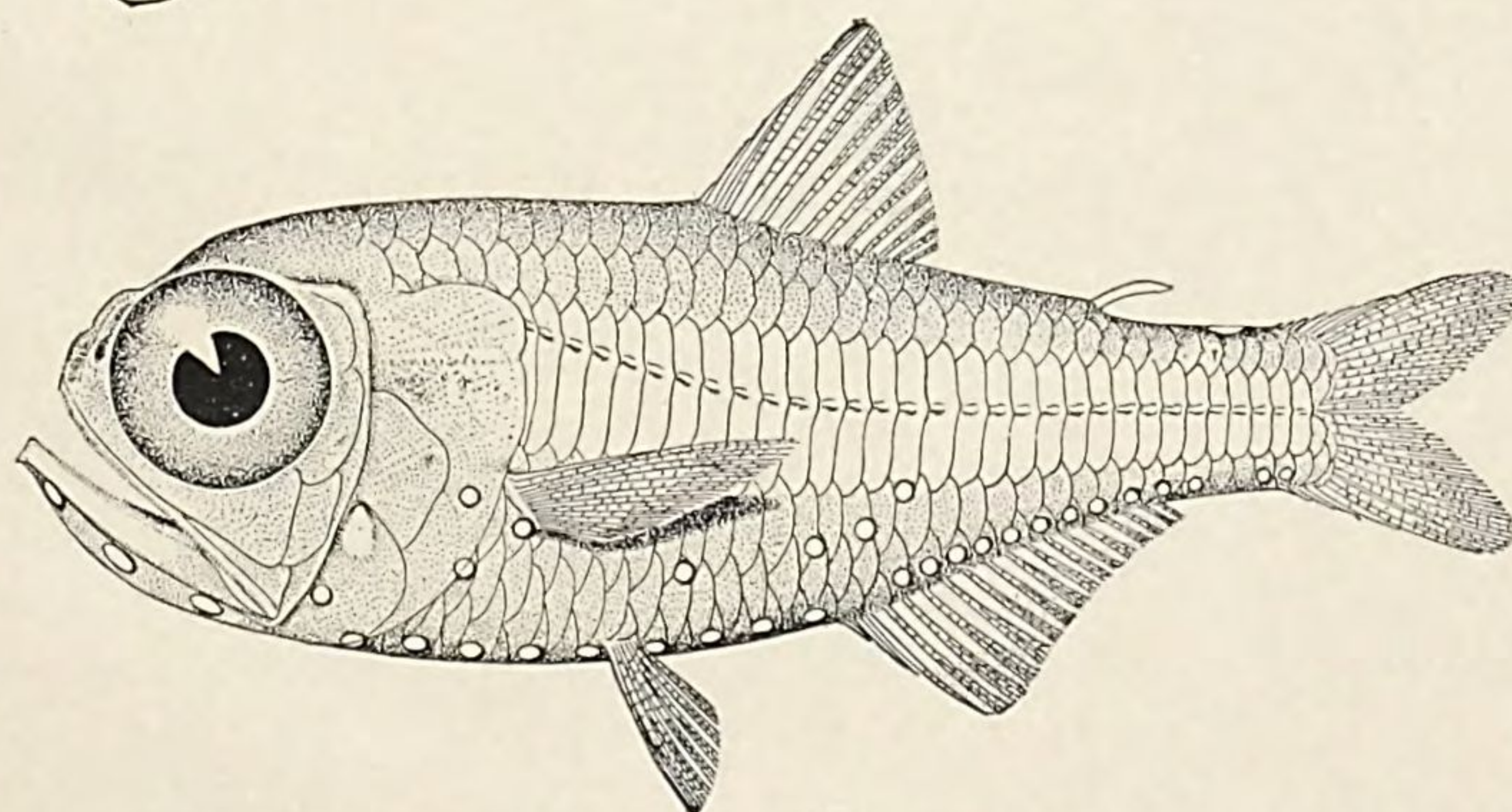
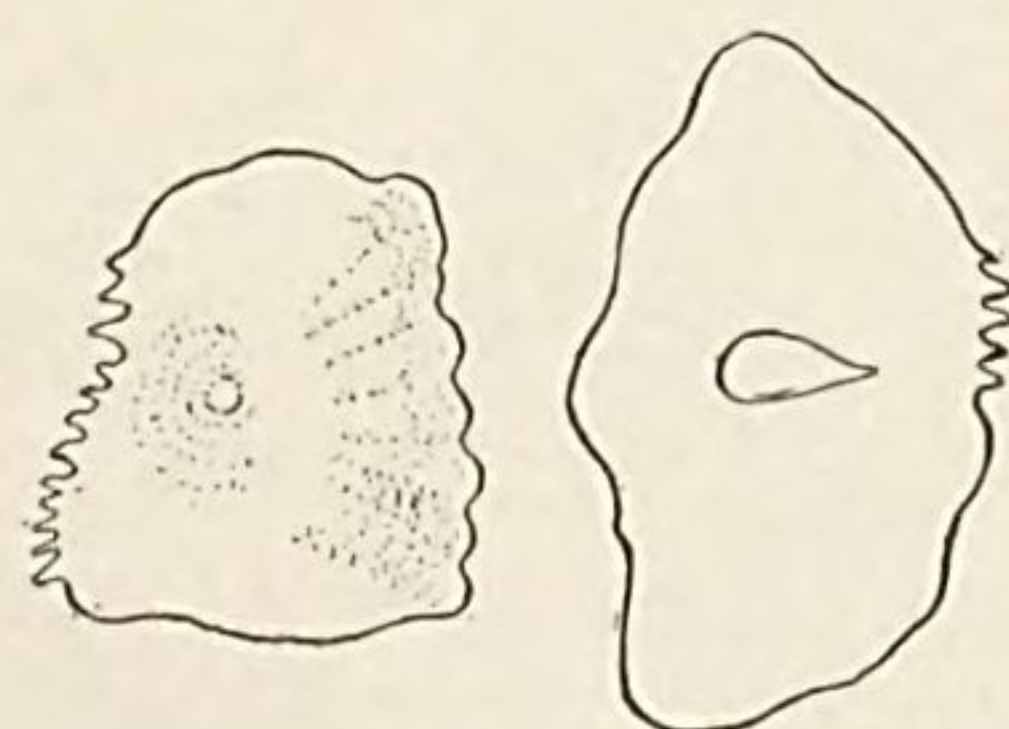
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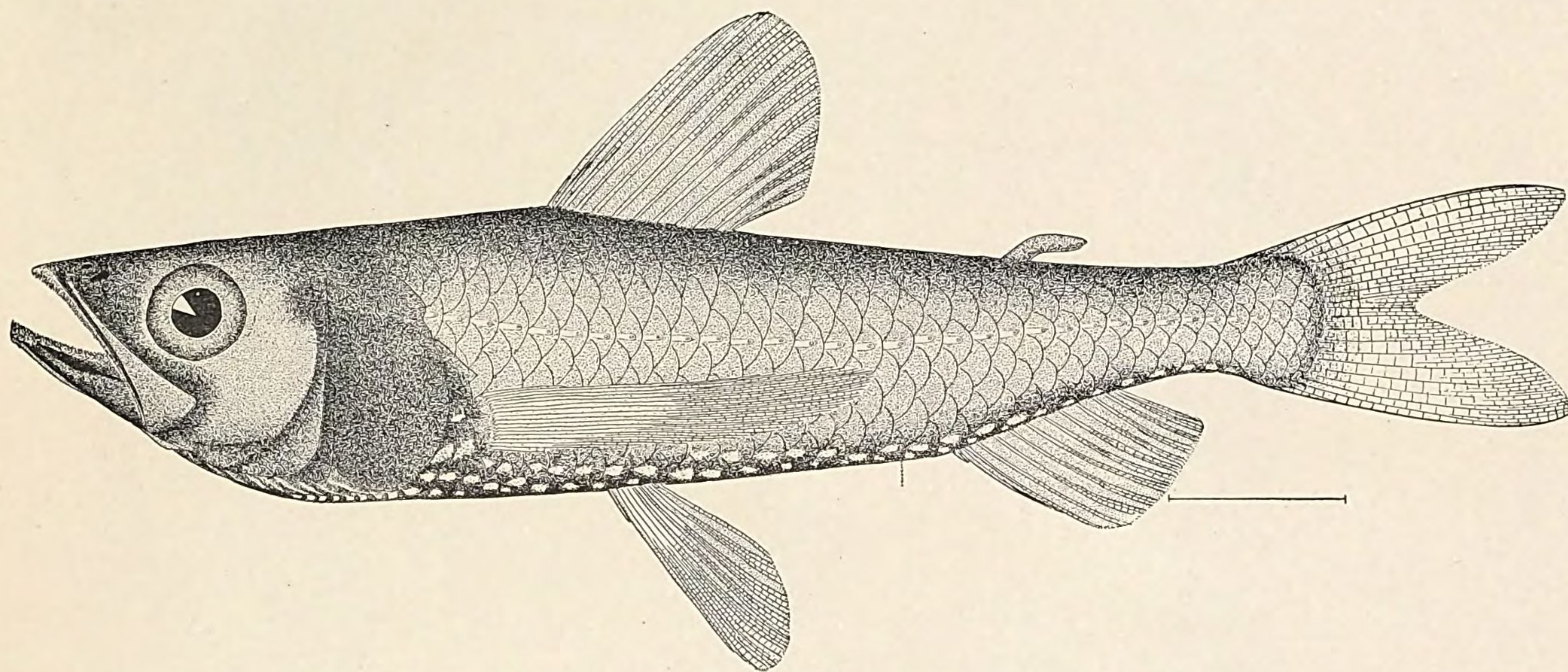
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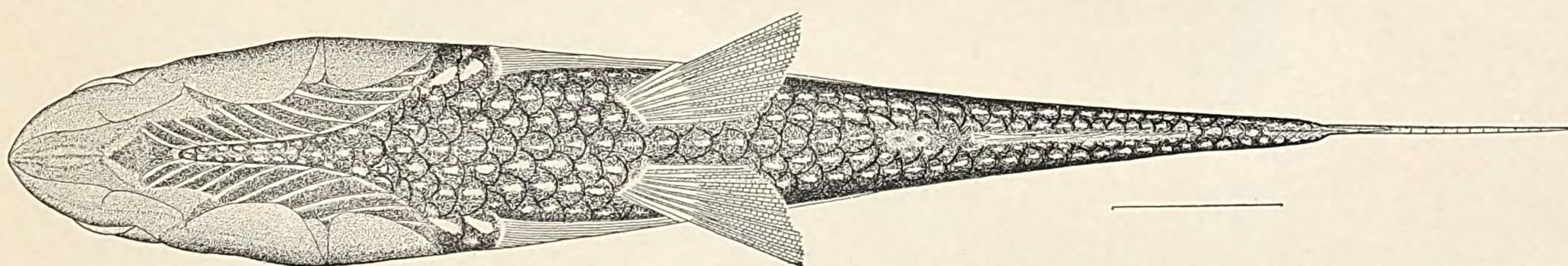
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104. RHINOSCOPELUS COCCI. (p. 90.)
106. DASYSCOPELUS ASPER. (p. 92.)

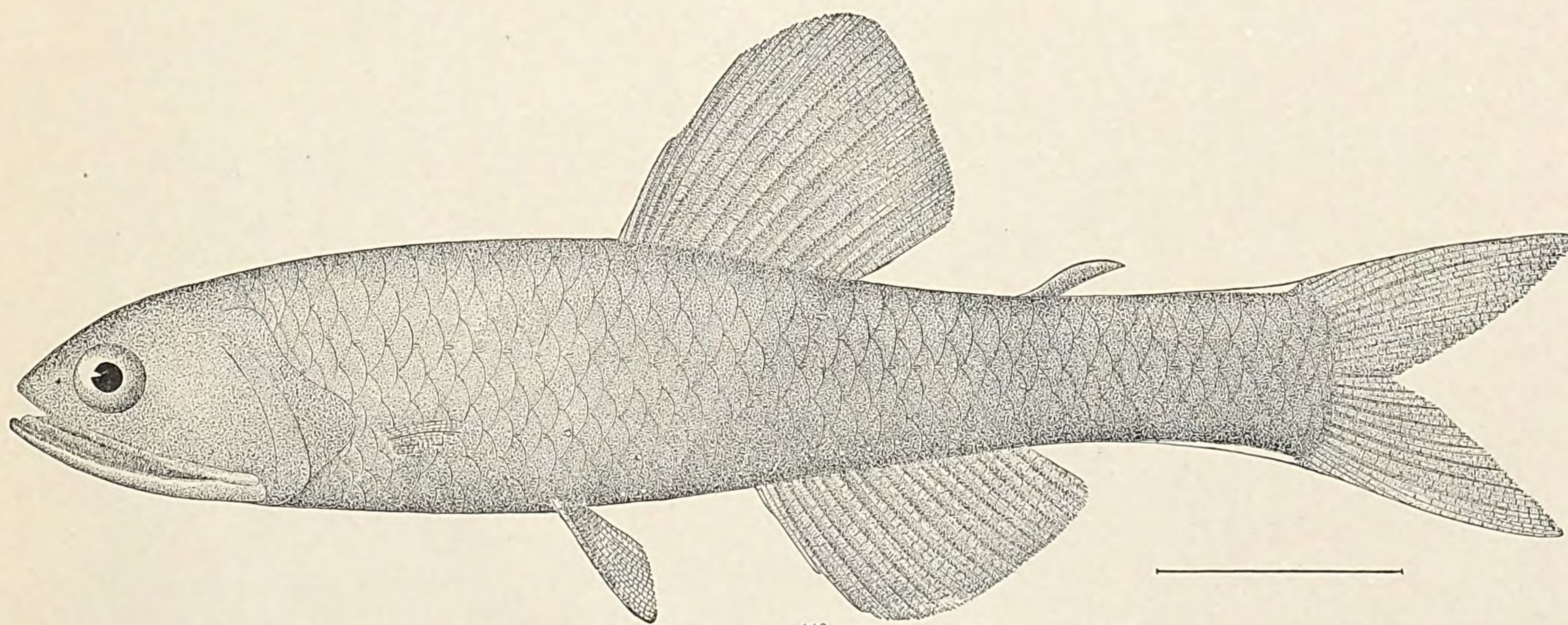
105. TARLETONBEANIA TENUA. (p. 89.)
107. ELECTRONA RISSOL. (p. 91.)



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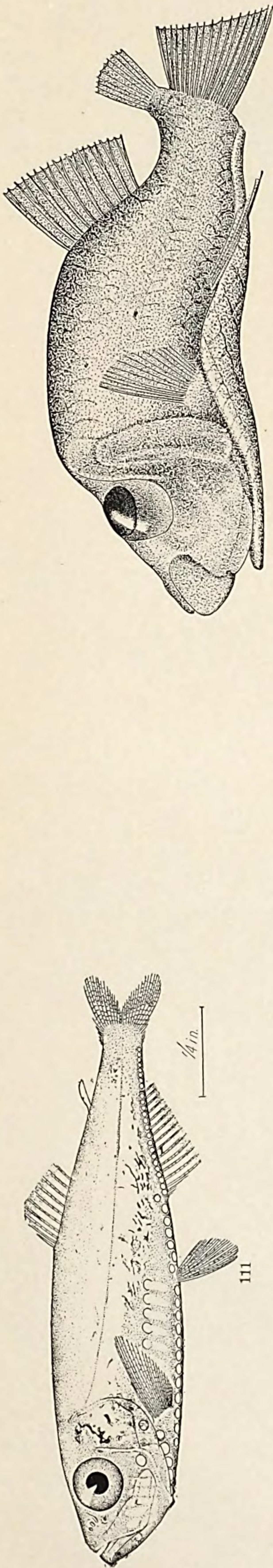
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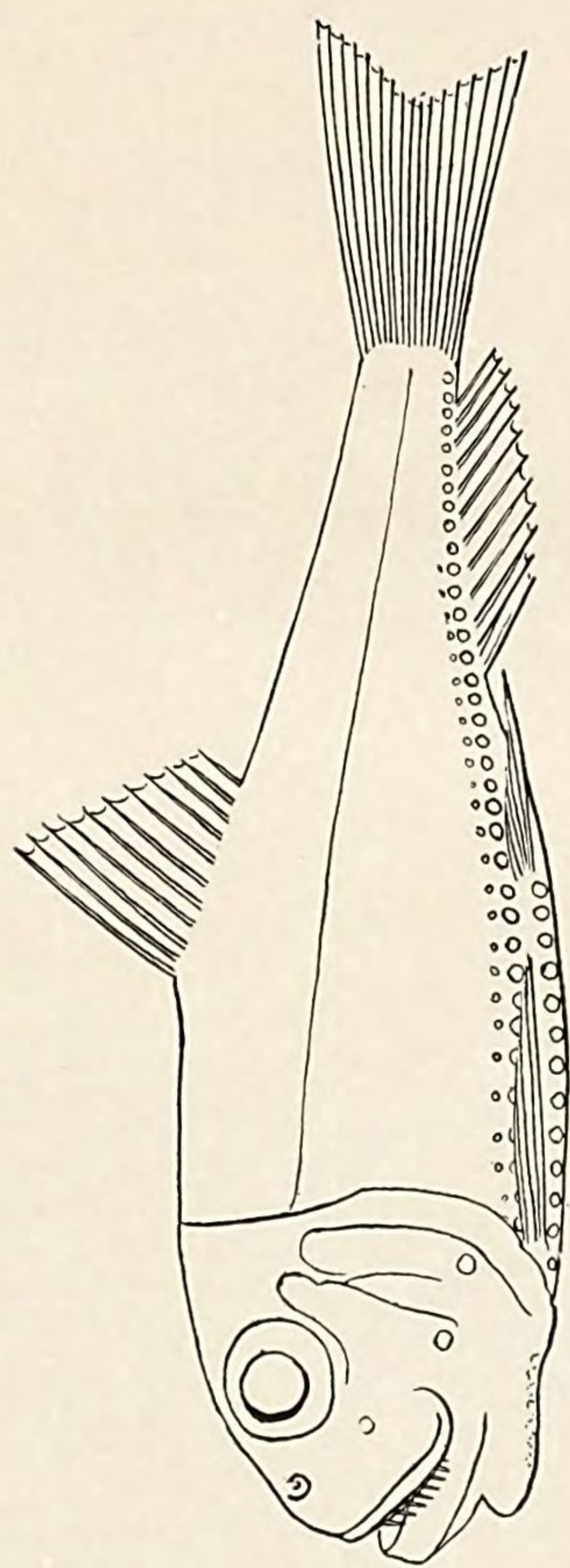
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108, 109. NEOSCOPELUS MACROLEPIDOTUS. (p. 93.)

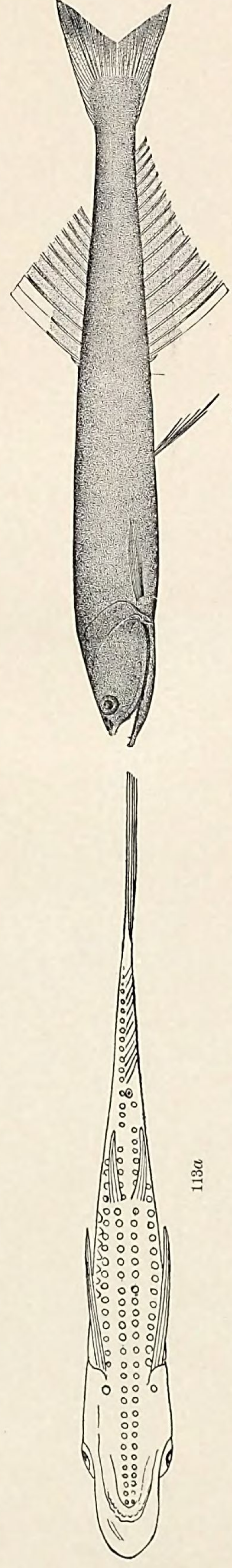
110. NANNOBRACHIUM MACDONALDI. (p. 94.)



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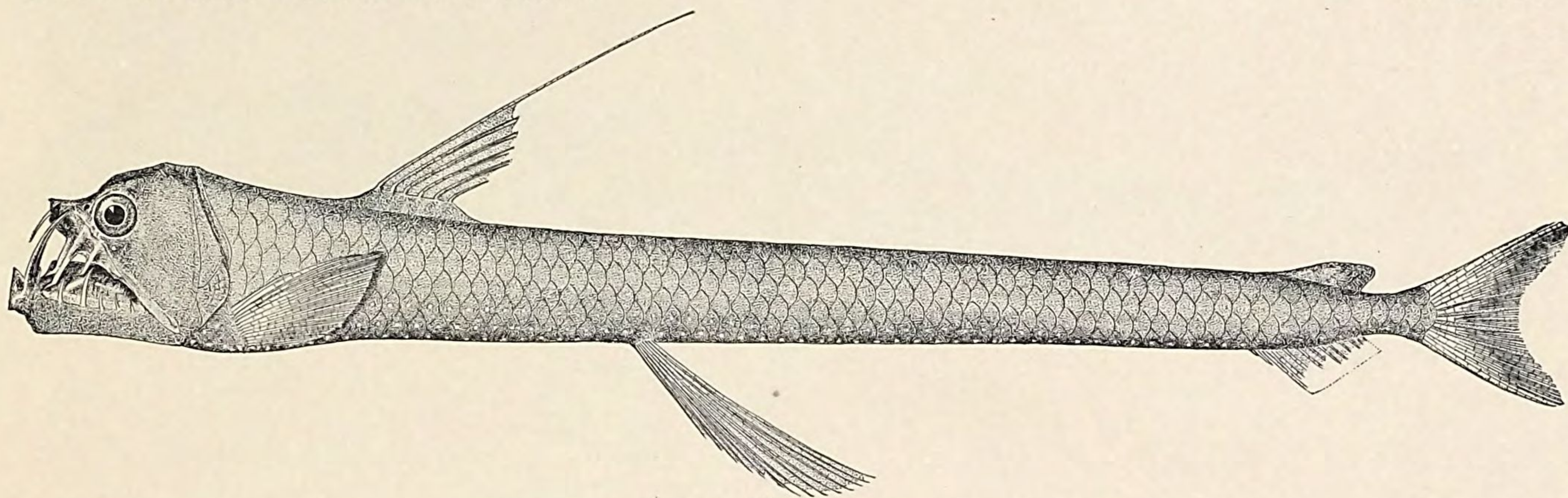


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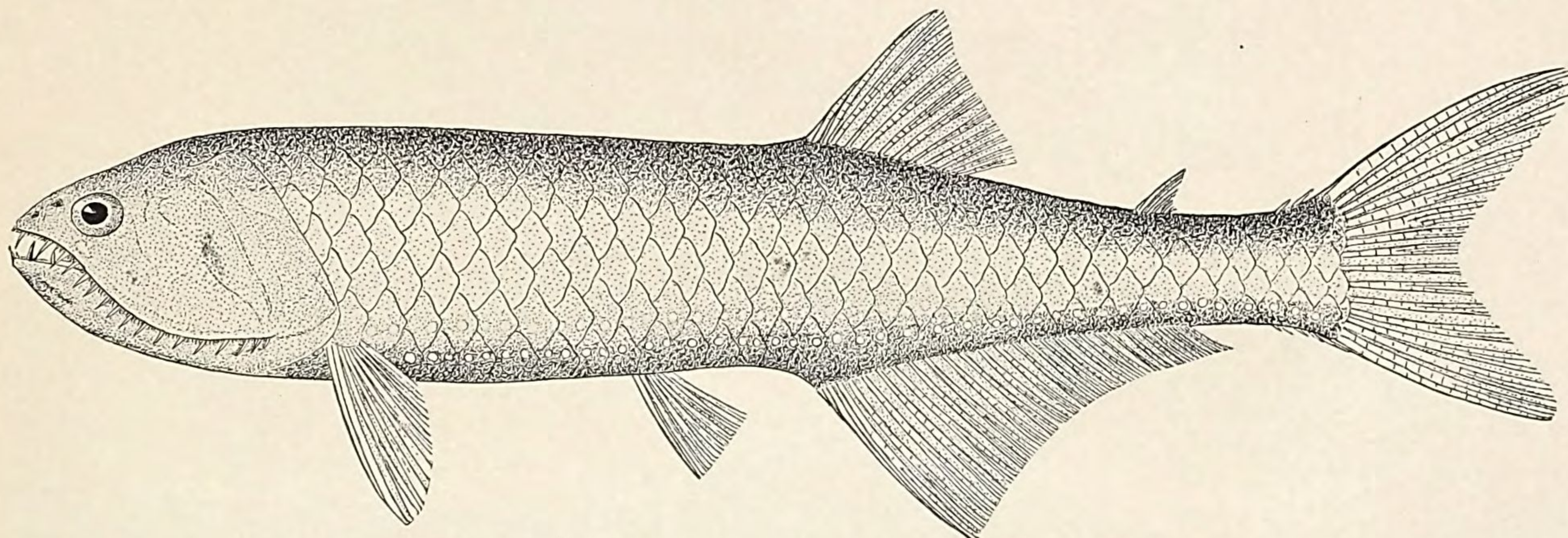
112. *OPISTHOPROCTUS SOLEATUS*. (p. 95.)
114. *CYCLOTHONE MICRODON*. (p. 99.)

111. *MAUROLICUS BOREALIS*. (p. 96.)
113, 113a. *ICHTHYOCOCCUS OVATUS*. (p. 95.)

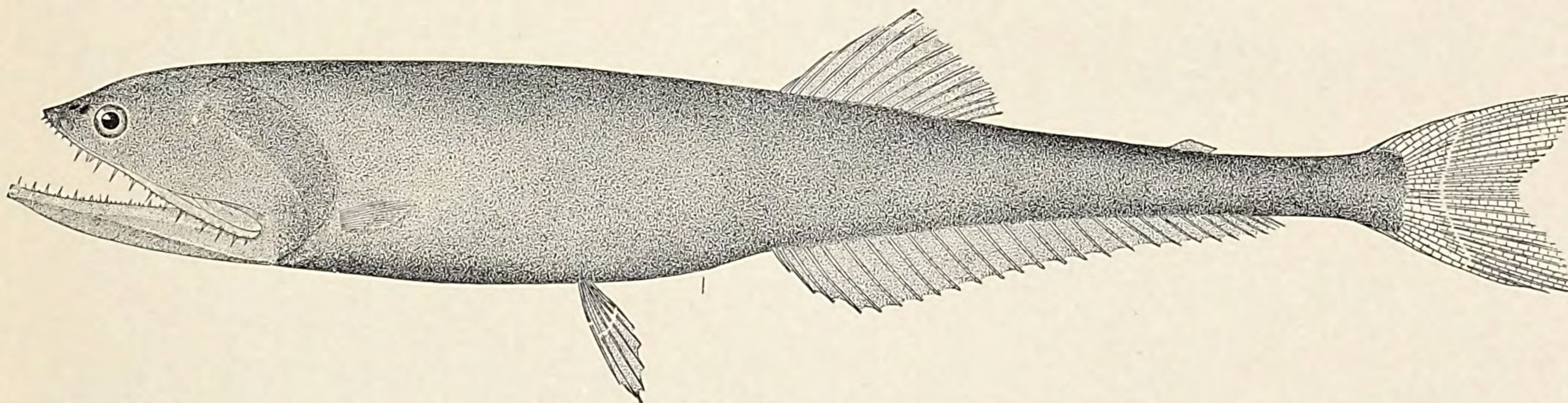
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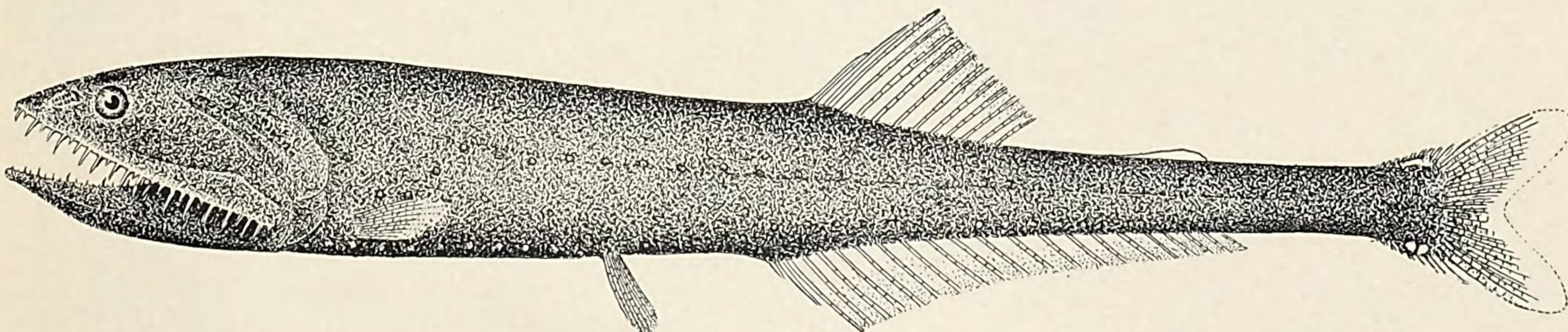
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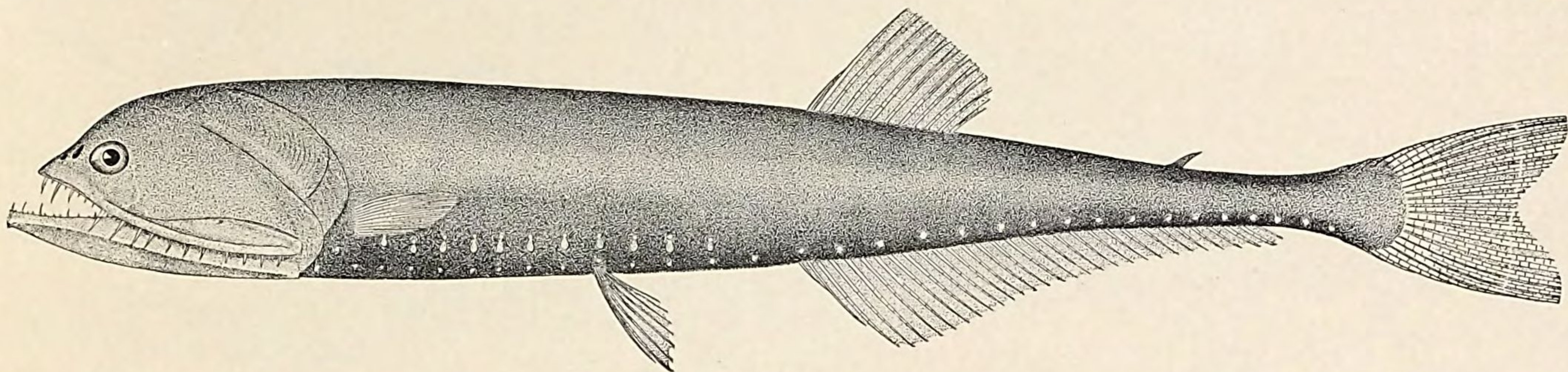
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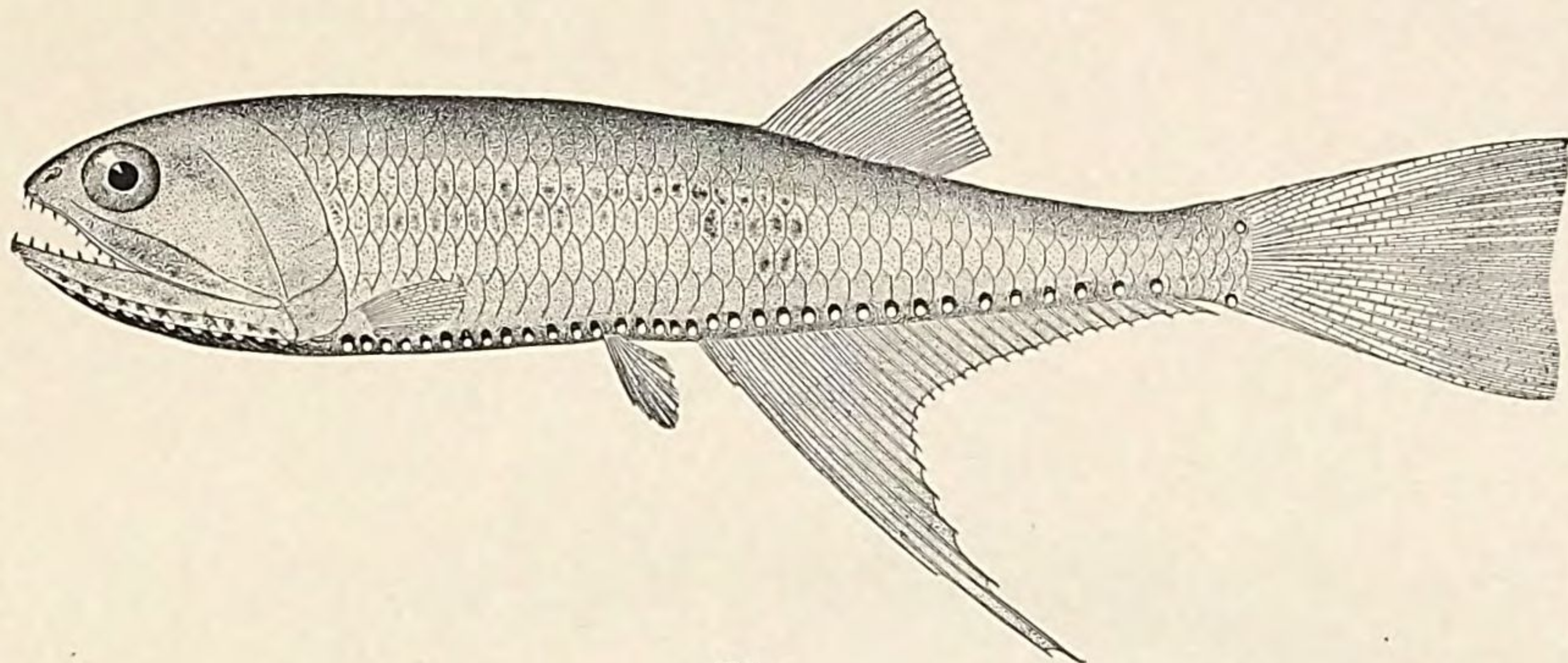
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115. CHAULIODUS SLOANII. (p. 96.)
117. GONOSTOMA BREVIDENS. (p. 98.)

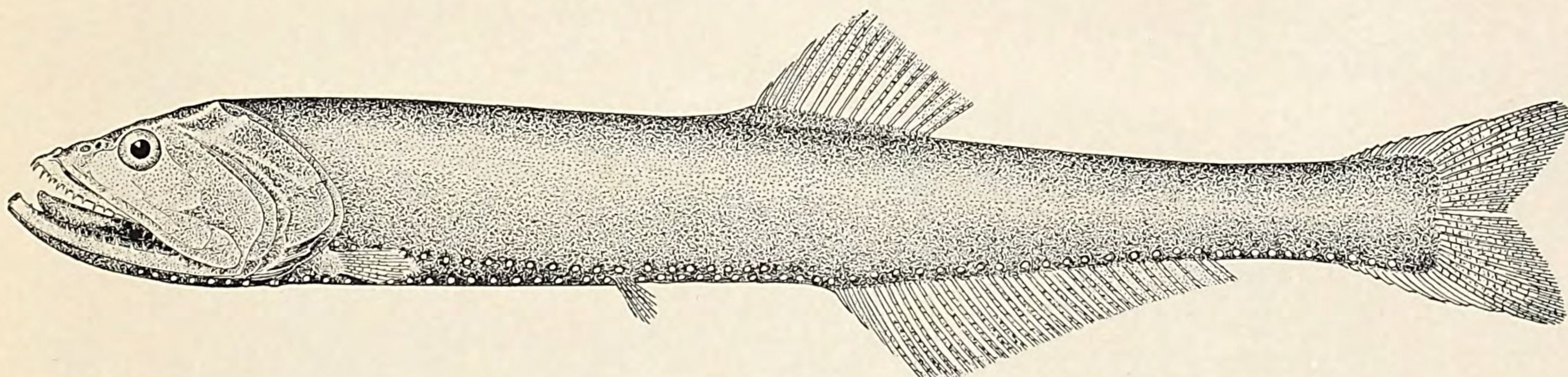
116. GONOSTOMA DENUDATUM. (p. 98.)
118. CYCLOTHONE BATHYPHILA. (p. 100.)



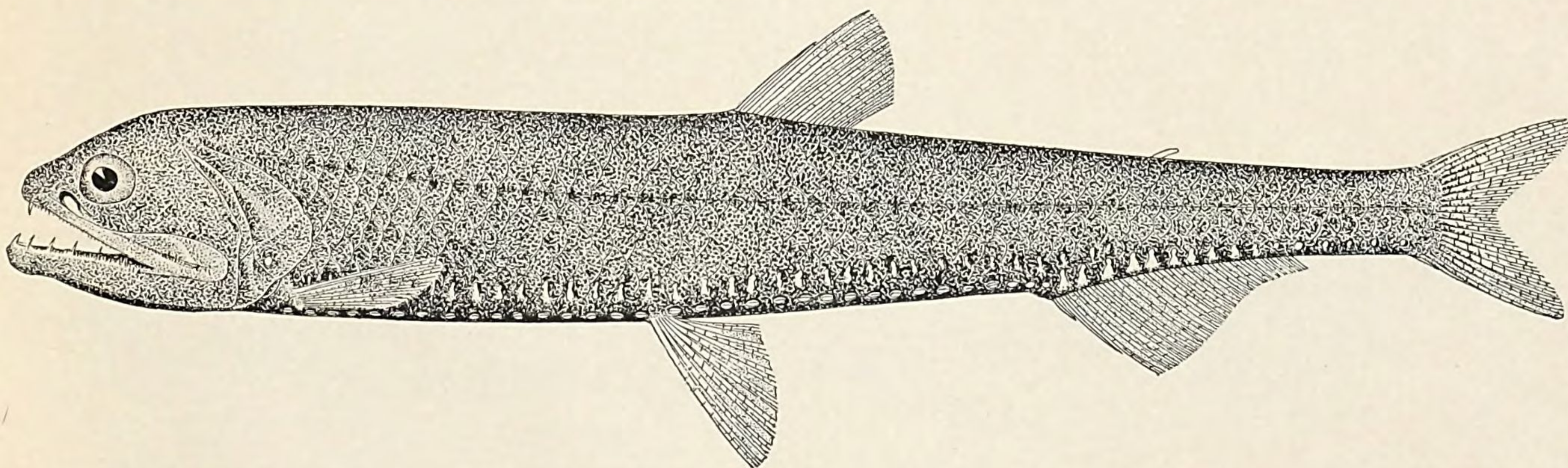
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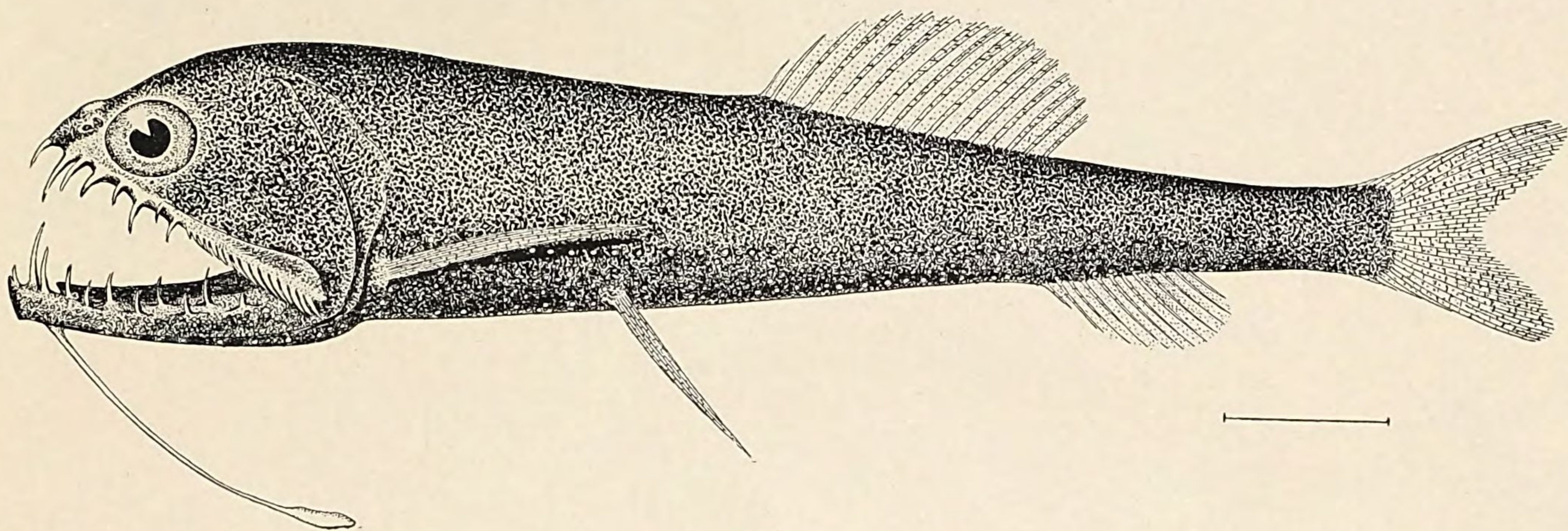
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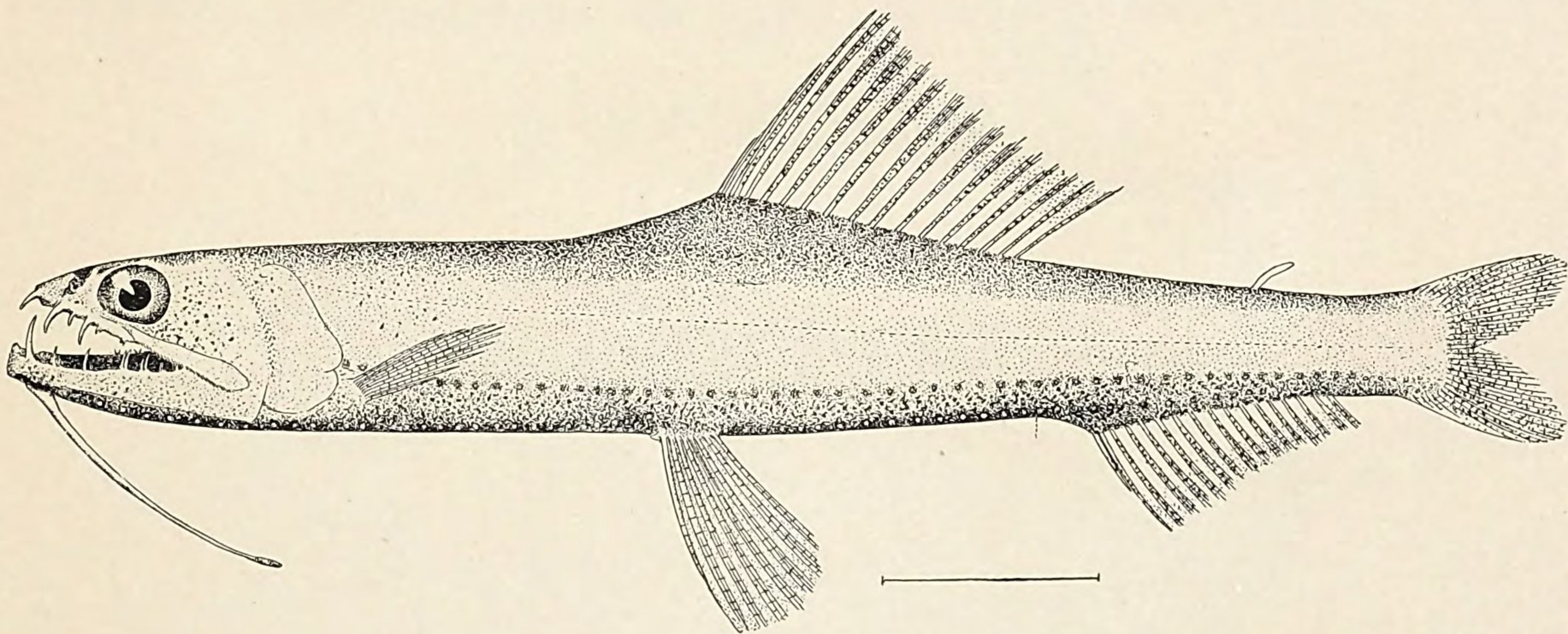
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119. CYCLOTHONE ELONGATA. (p. 101.)
121. YARRELLA BLACKFORDI. (p. 103.)

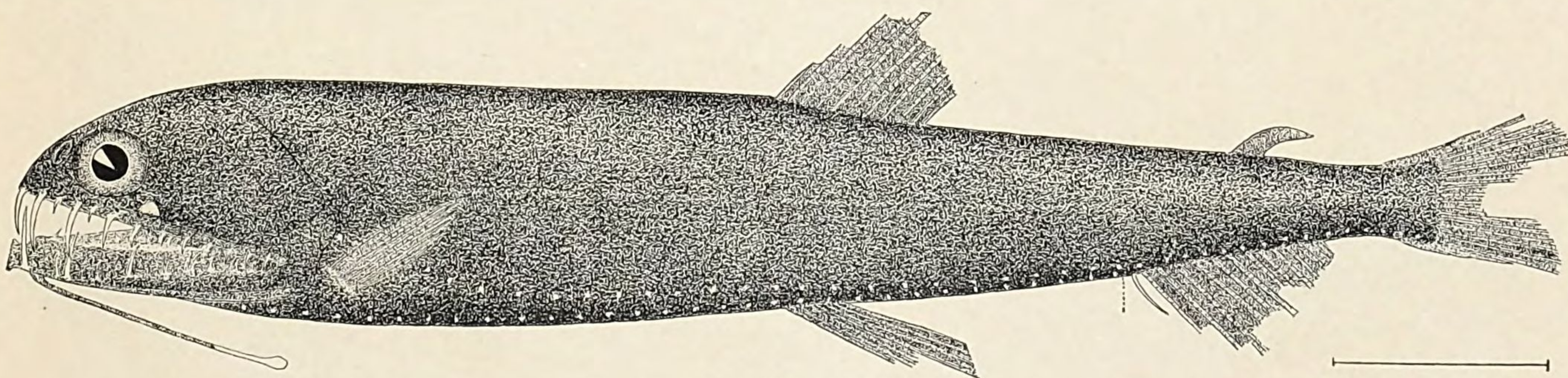
120. BONAPARTIA PEDALIOTA. (p. 102.)
122. PHOTICHTHYS ARGENTEUS. (p. 104.)



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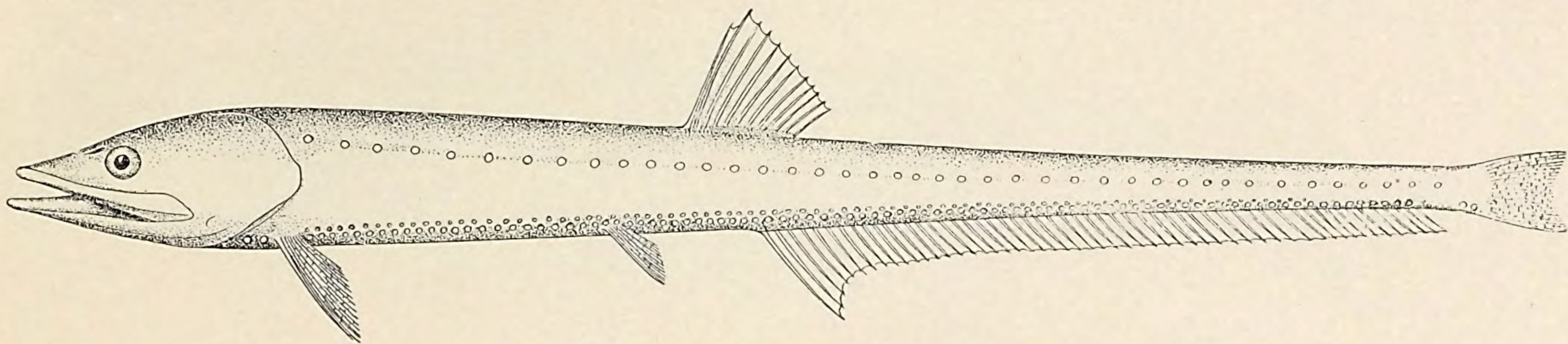


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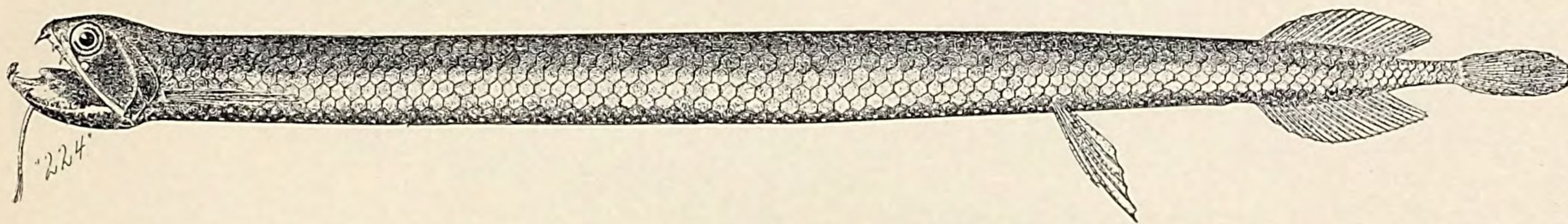
123. *ASTRONESTHES NIGER*. (p. 105.)

124. *ASTRONESTHES GEMMIFER*. (p. 105.)

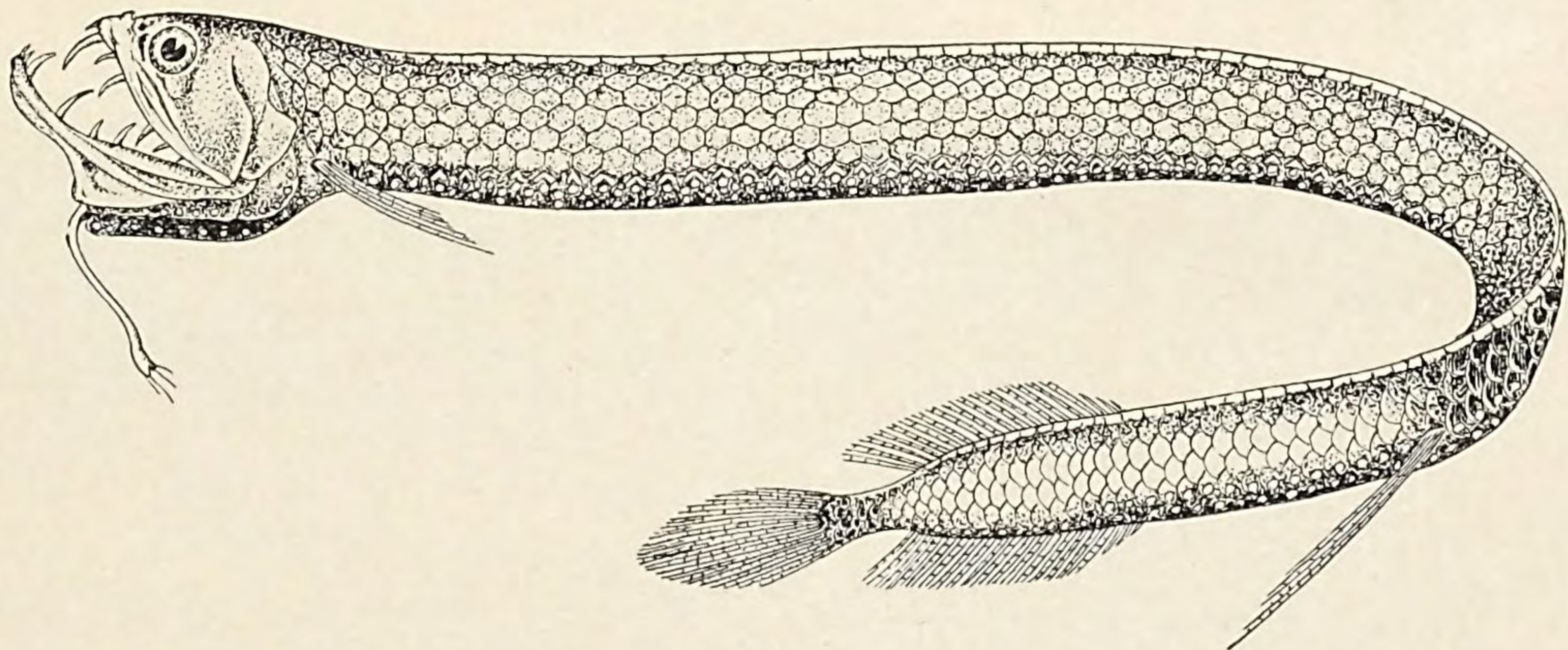
125. *ASTRONESTHES RICHARDSONII*. (p. 106.)



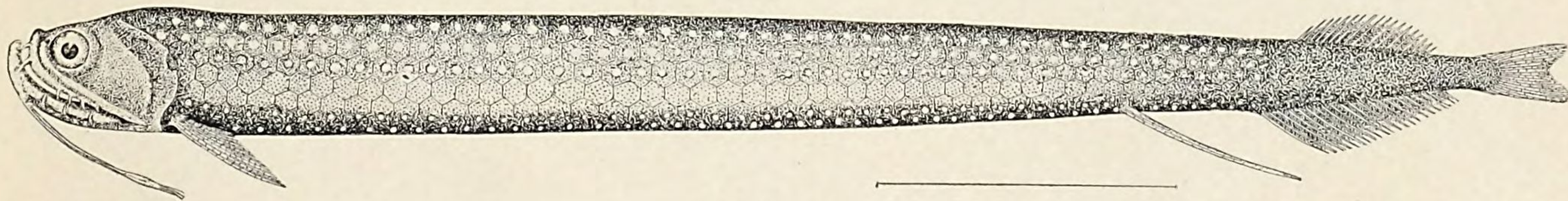
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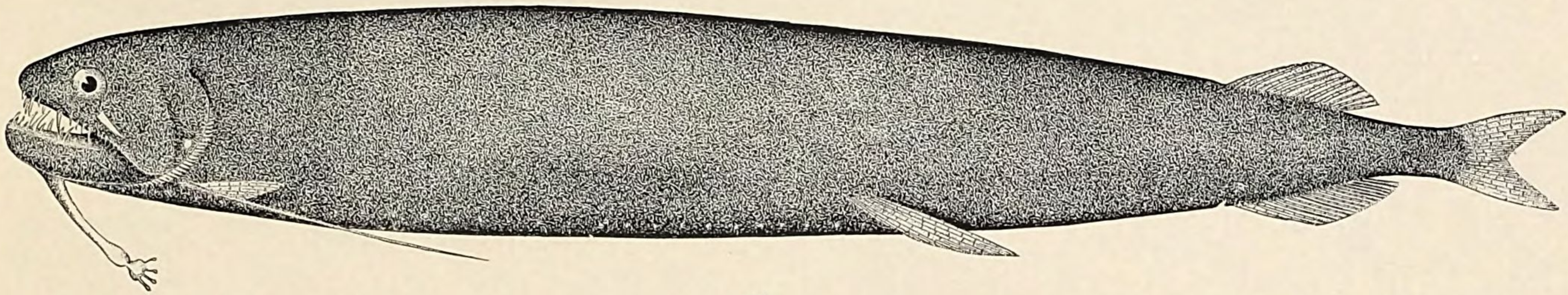
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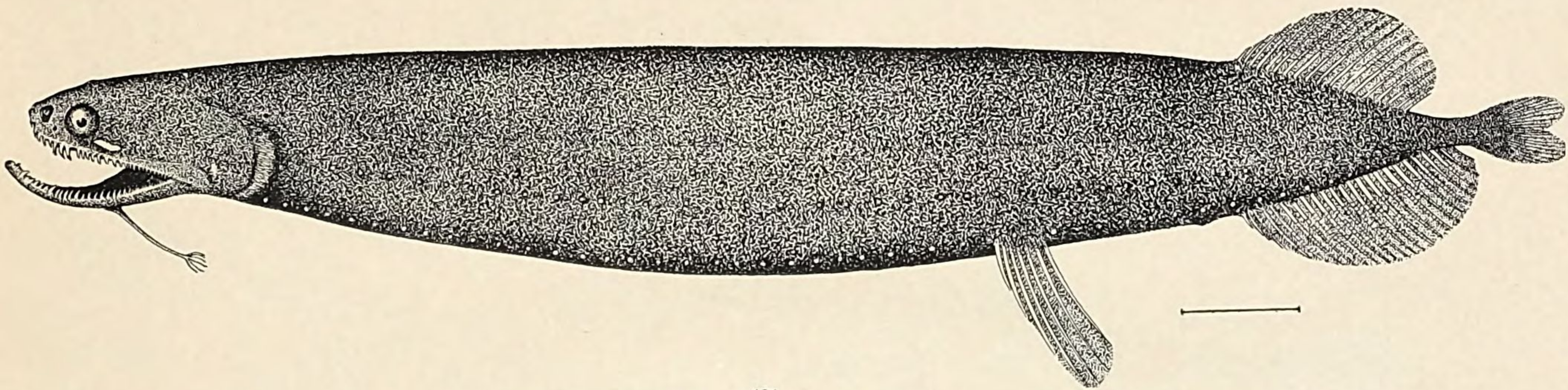
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126. DIPLOPHOS TÆNIA. (p. 104.)
128. STOMIAS BOA. (p. 108.)

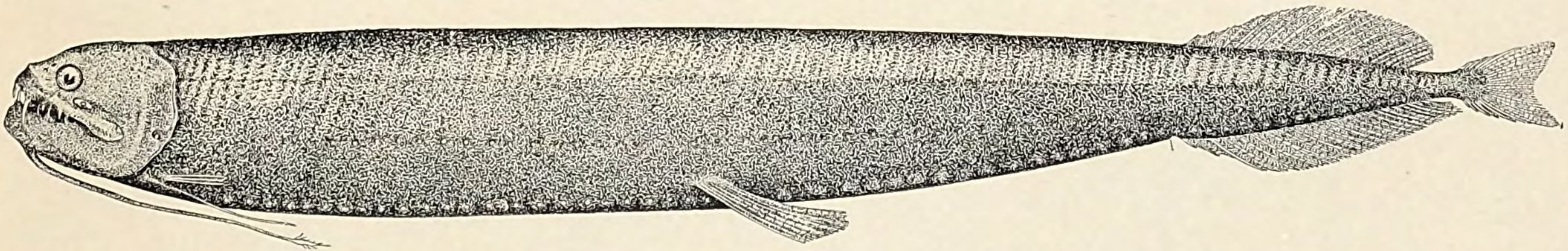
127. STOMIAS FEROX. (p. 107.)
129. STOMIAS AFFINIS. (p. 108.)



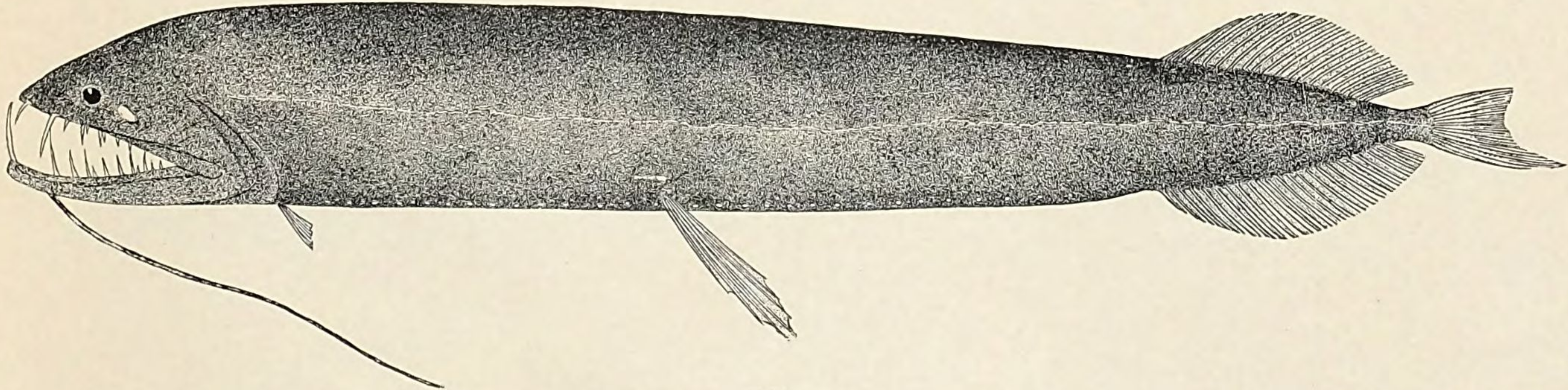
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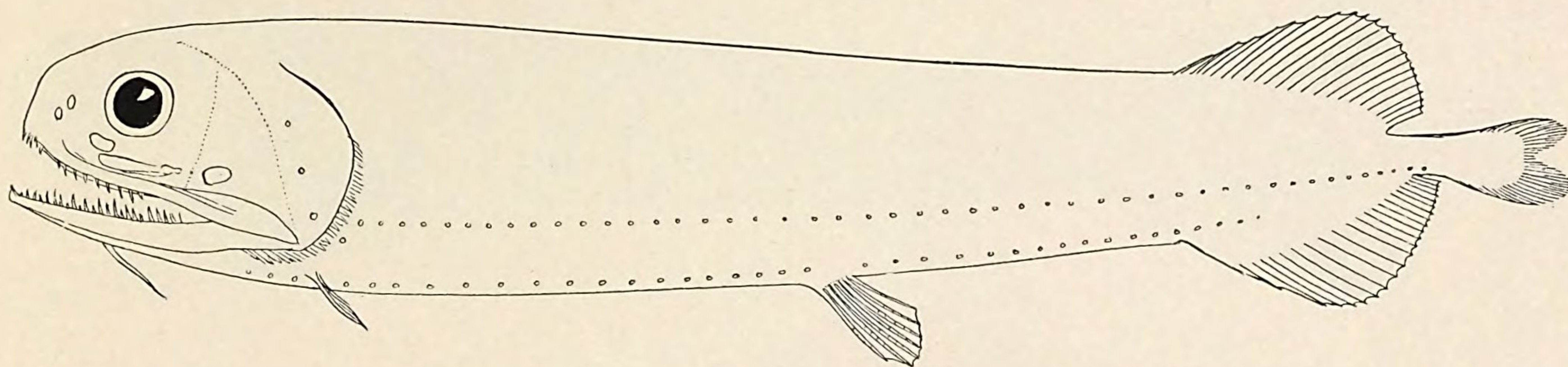
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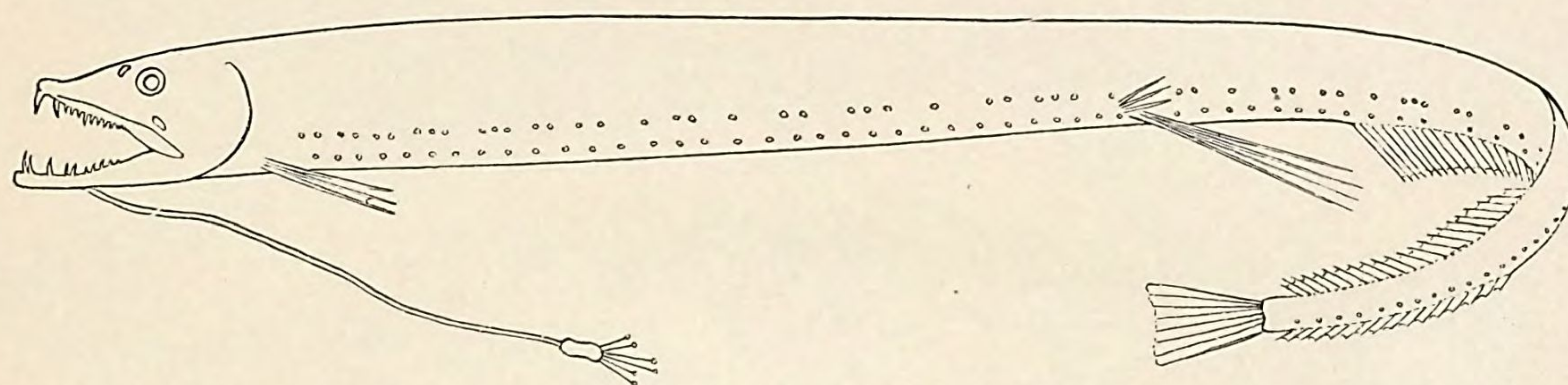
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130. ECHIOSTOMA BARBATUM. (p. 109.)
132. OPOSTOMIAS MICRIPNUS. (p. 110.)

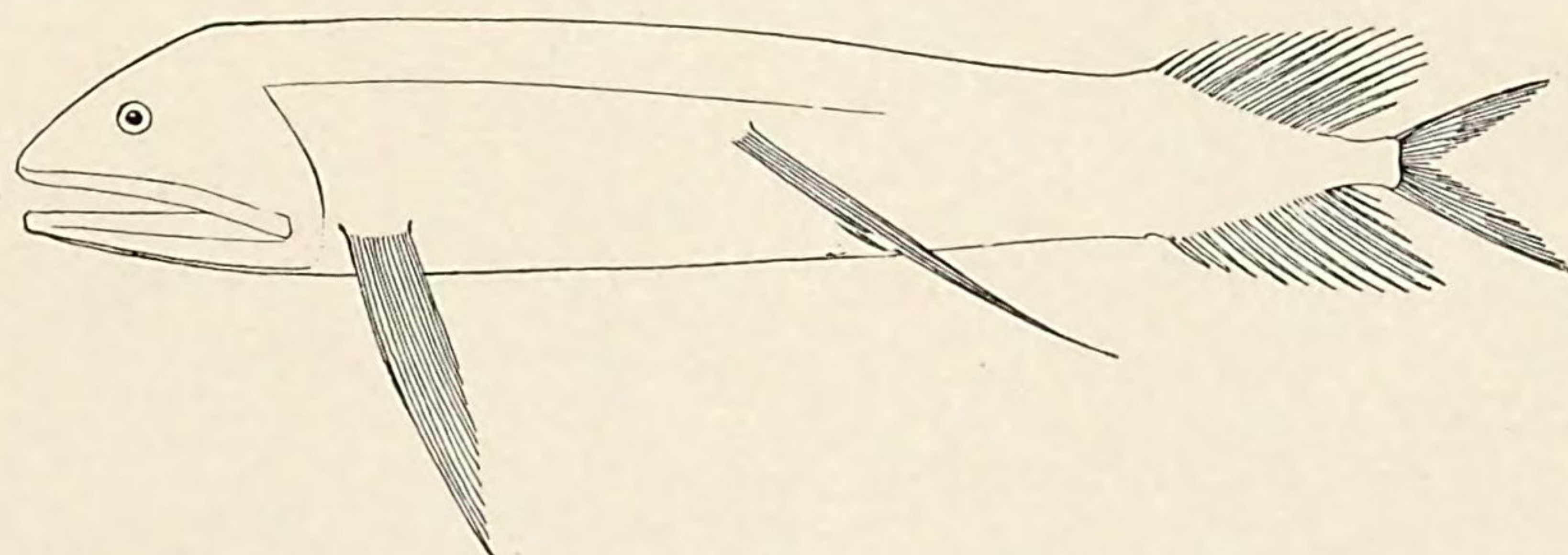
131. ECHIOSTOMA MARGARITA. (p. 109.)
133. GRAMMATOSTOMIAS DENTATUS. (p. 110.)



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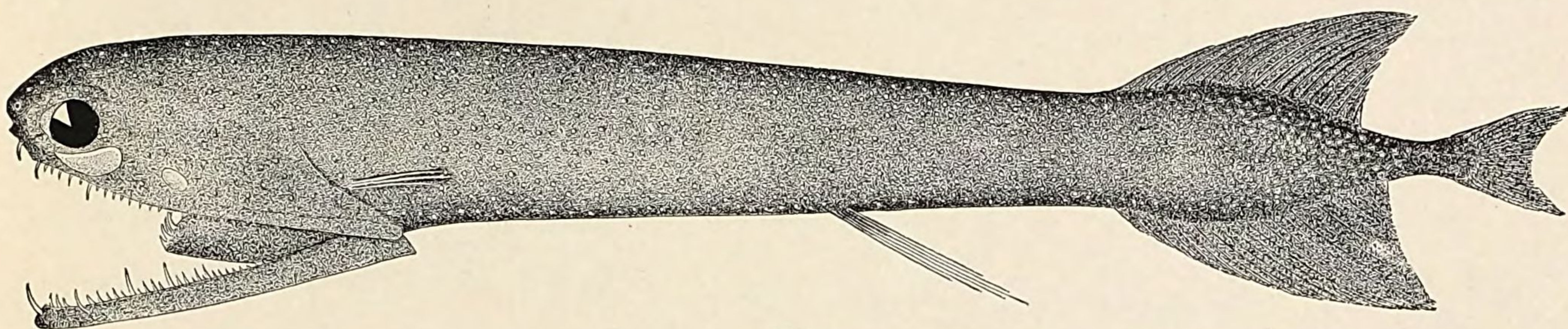
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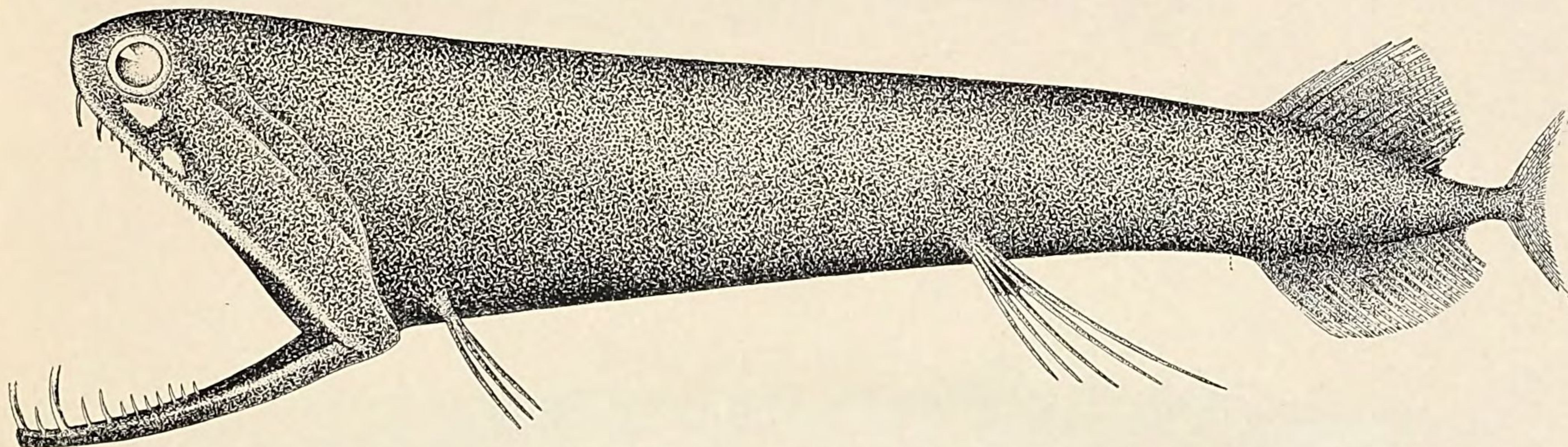
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134. PACHYSTOMIAS MICRODON. (p. 111.)
136. BATHOPHILUS NIGERRIMUS. (p. 111.)

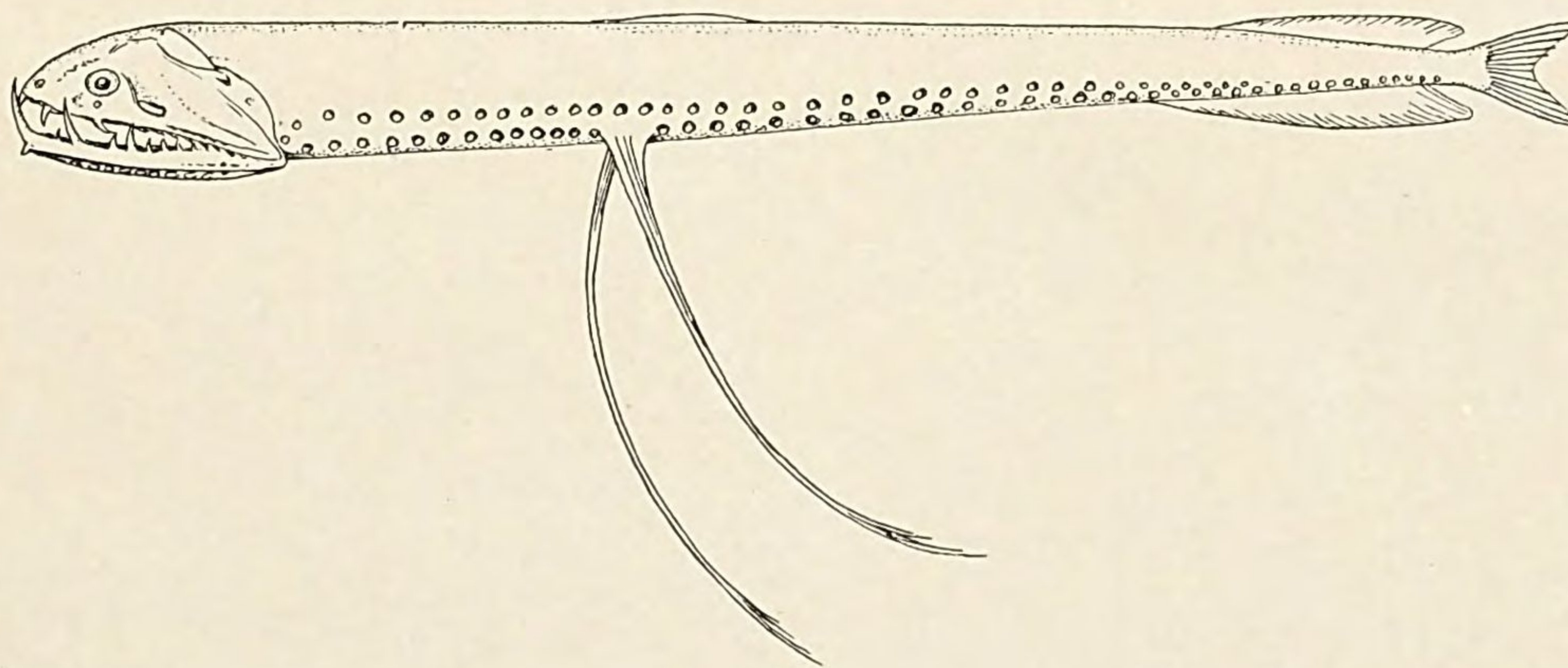
135. EUSTOMIAS OBSCURUS. (p. 111.)
137. PHOTONECTES GRACILIS. (p. 112.)



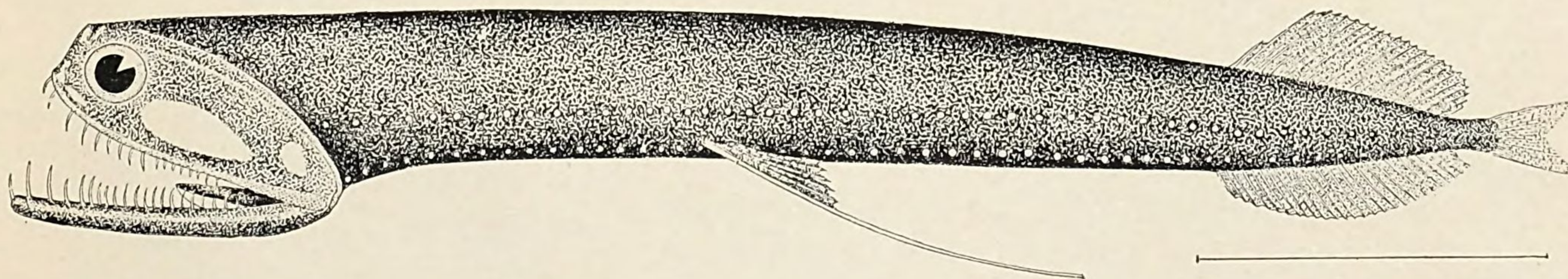
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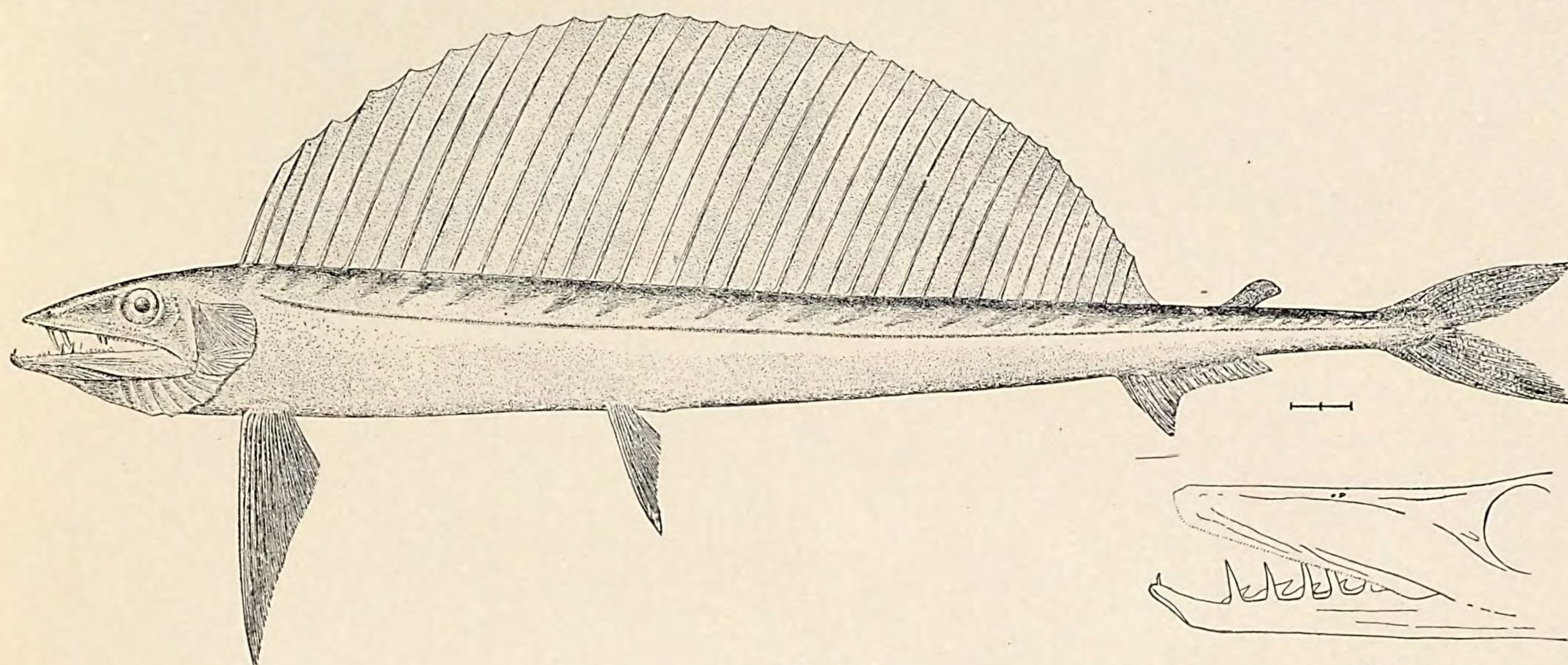
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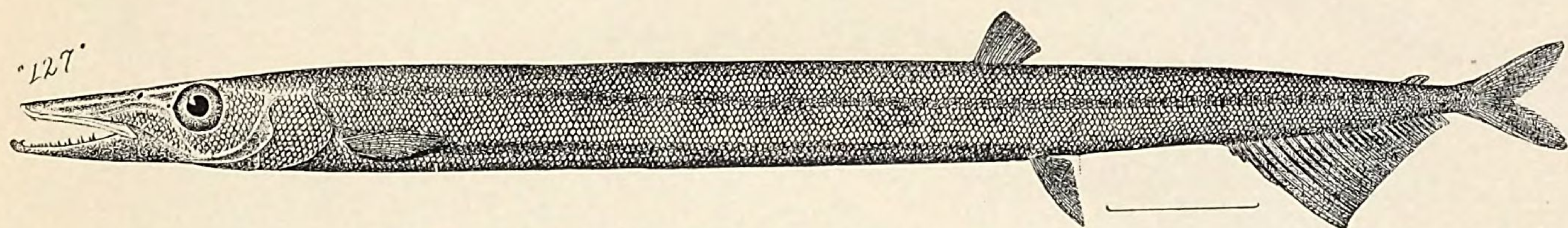
138. MALACOSTEUS NIGER. (p. 114.)
140. PHOTOSTOMIAS GUERNEI. (p. 115.)

139. MALACOSTEUS CHORISTODACTYLUS. (p. 114.)
141. THAUMATOSTOMIAS ATROX. (p. 115.)

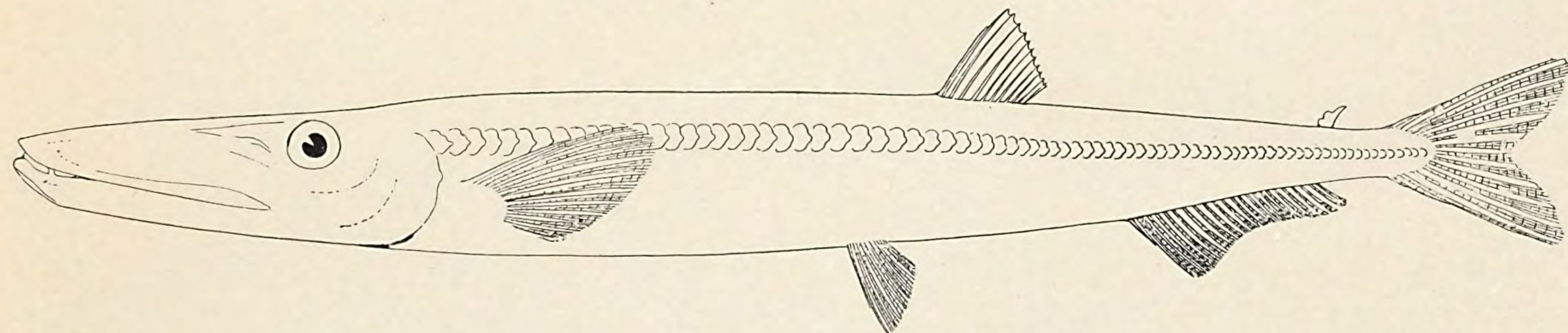


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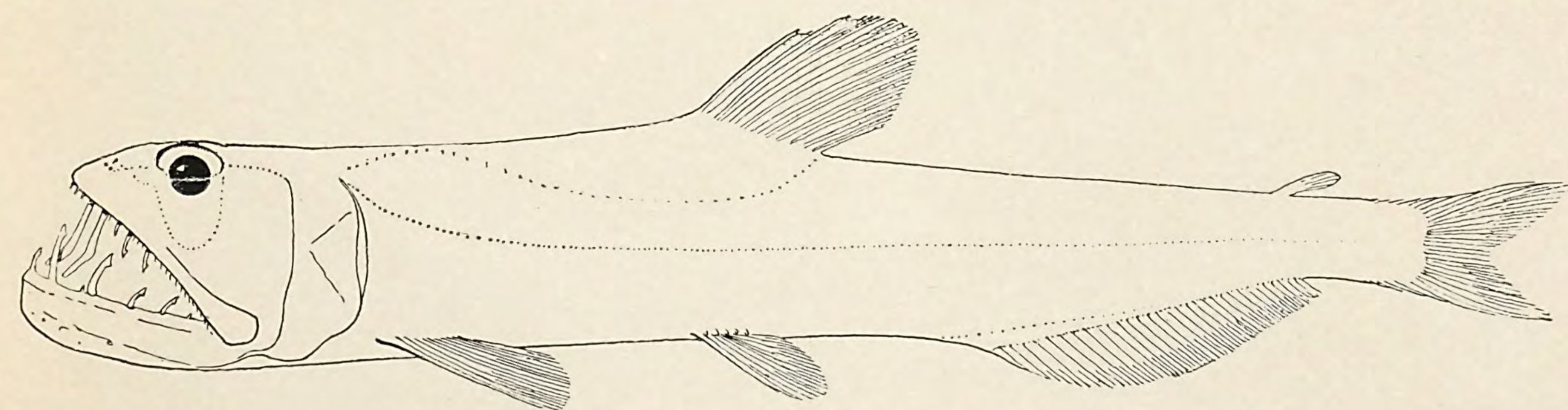
143a



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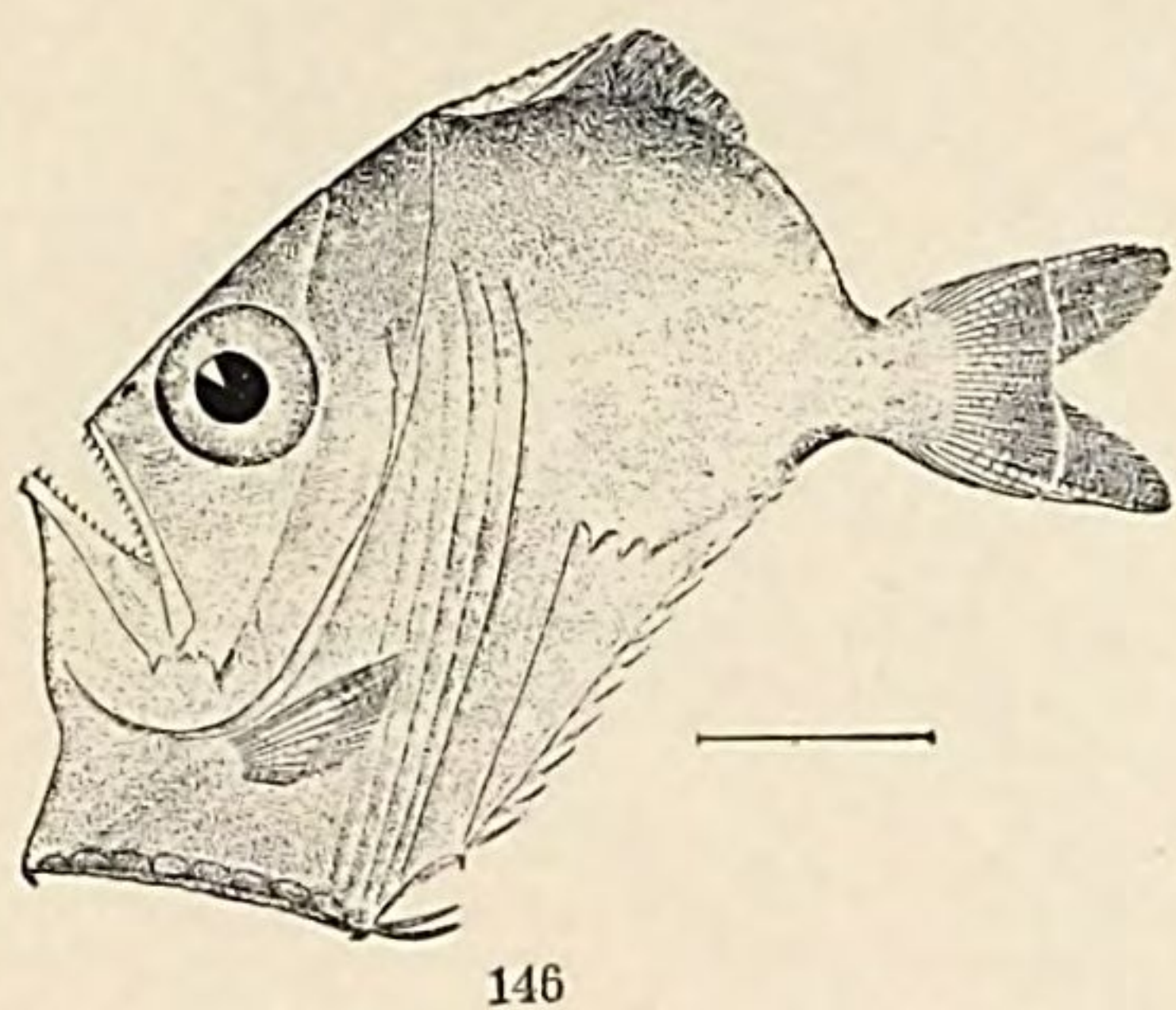
142. ALEPISAURUS FEROX. (p. 117.)

143a. PARALEPIS COREGONOIDES. (p. 119.)

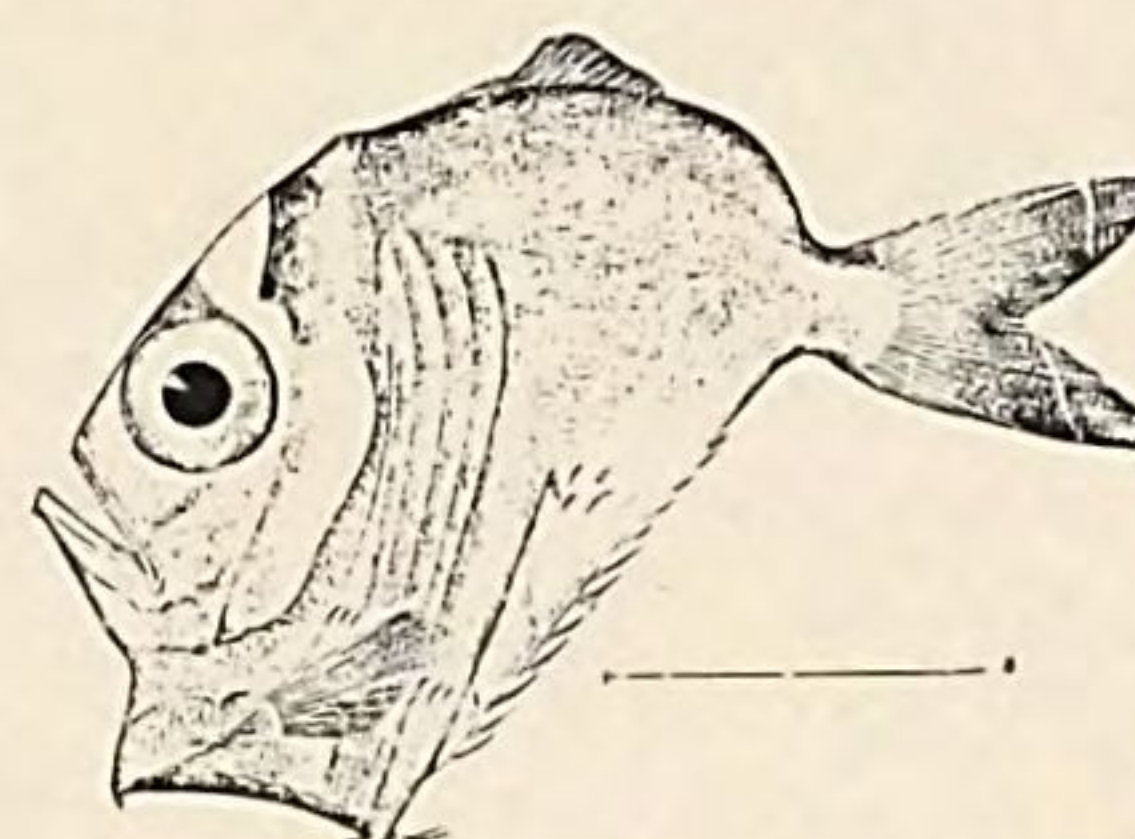
143. PARALEPIS BOREALIS. (p. 119.)

144. SUDIS HYALINA. (p. 121.)

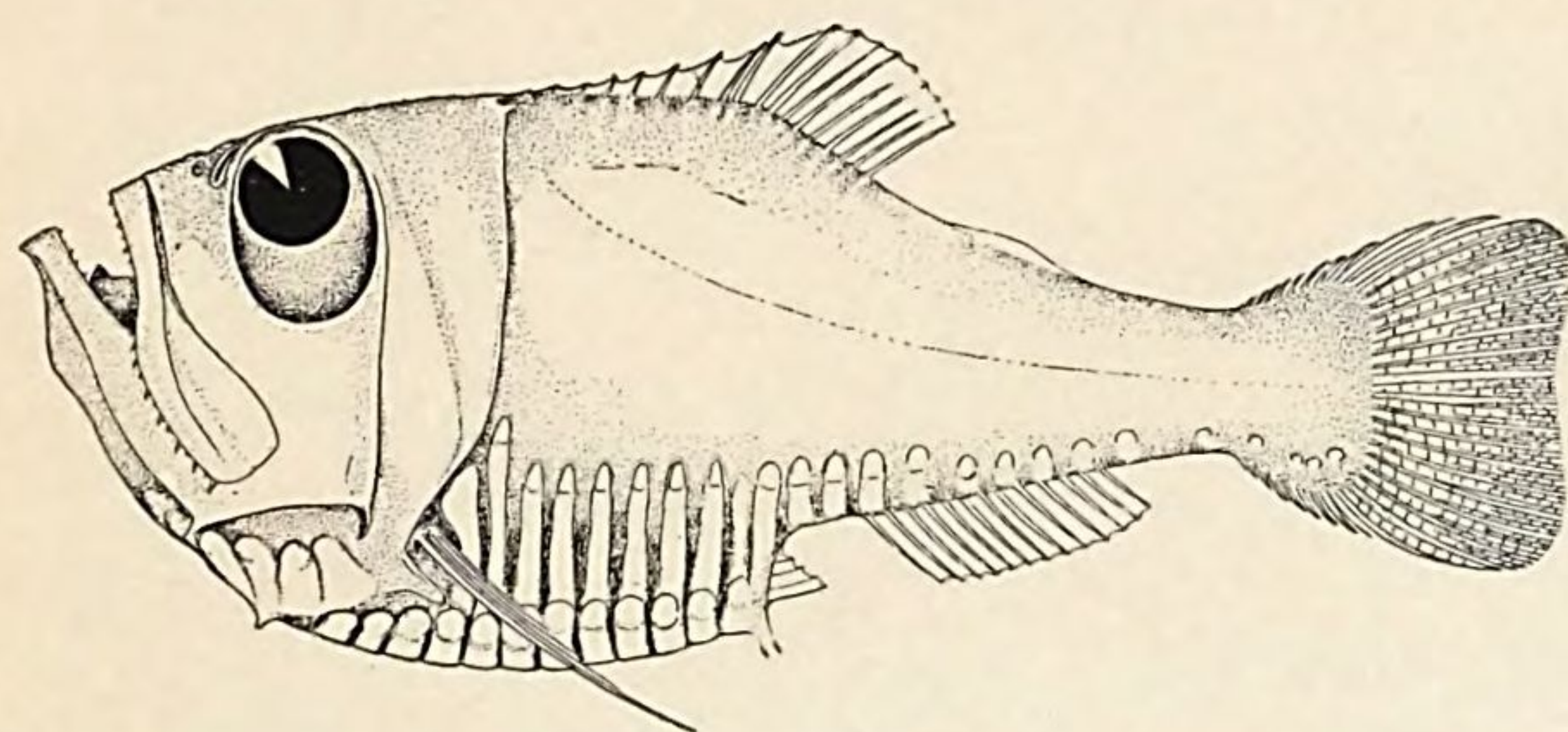
145. ODONTOSTOMUS HYALINUS. (p. 121.)



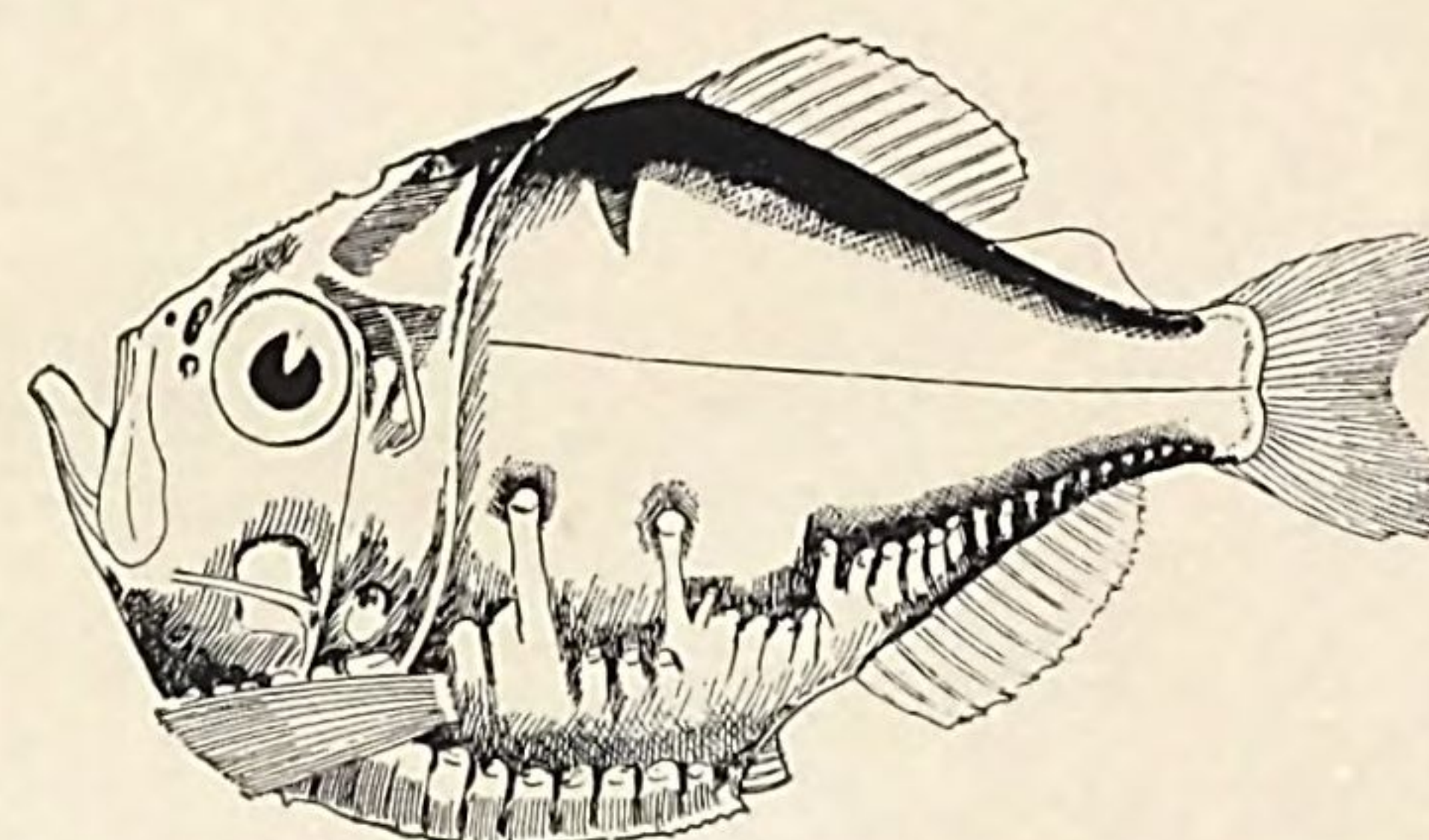
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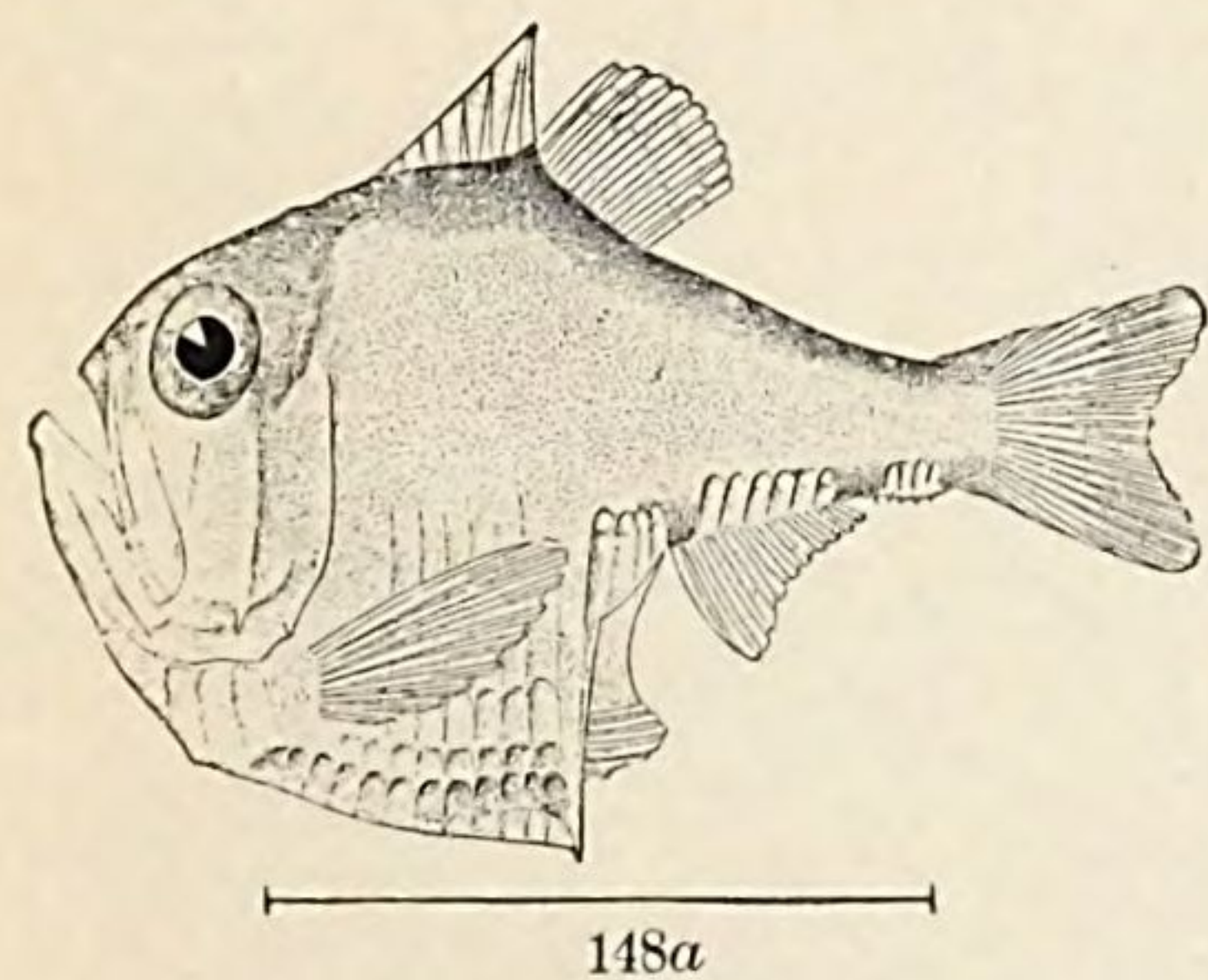
146b



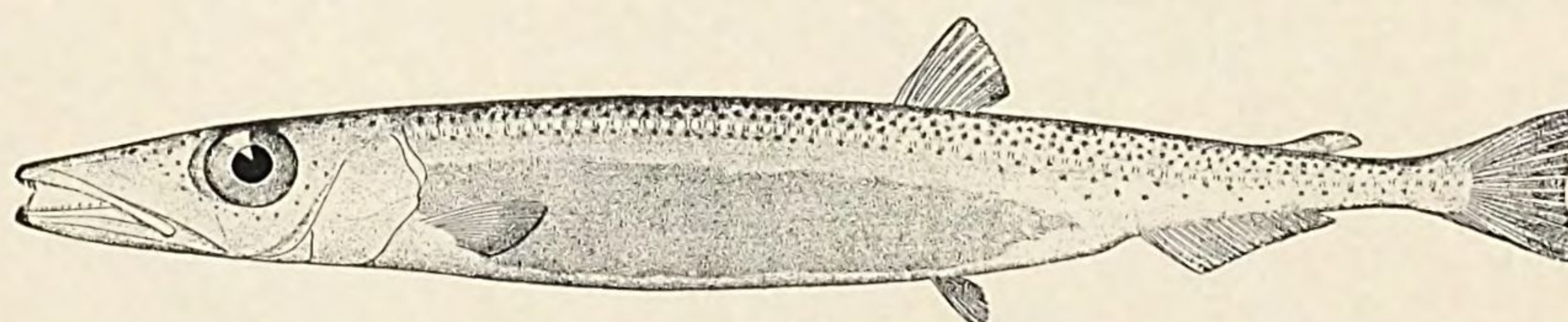
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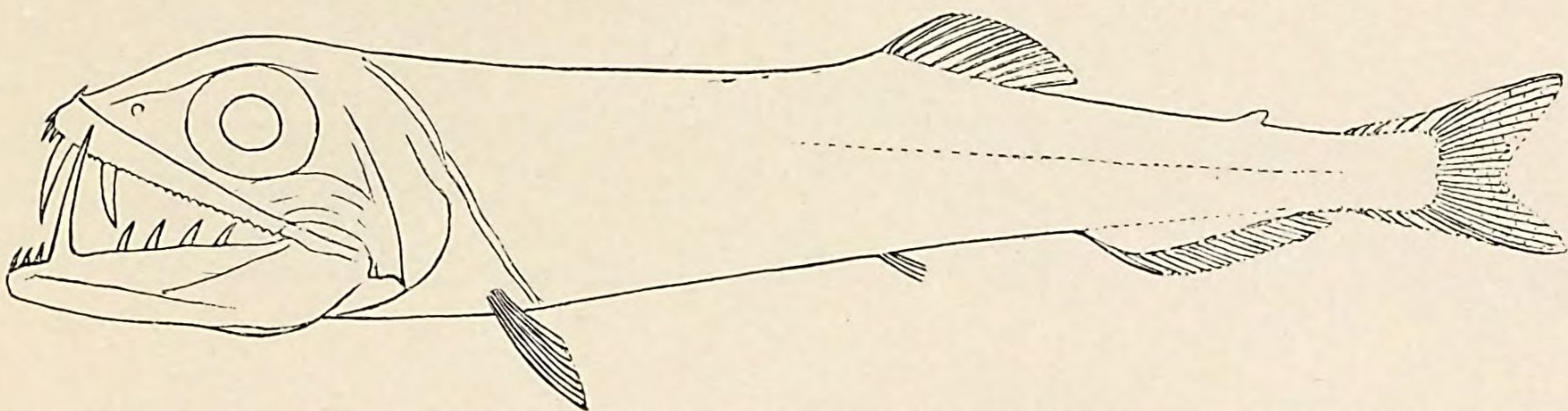
148a



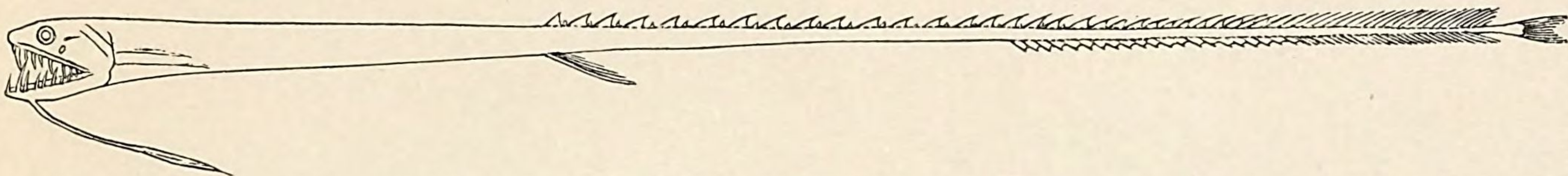
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- 146, 146b. STERNOPTYX DIAPHANA. (p. 124.)
 148. POLYIPNUS SPINOSUS. (p. 128.)
 149. PARALEPIS COREGONOIDES. (p. 119.)

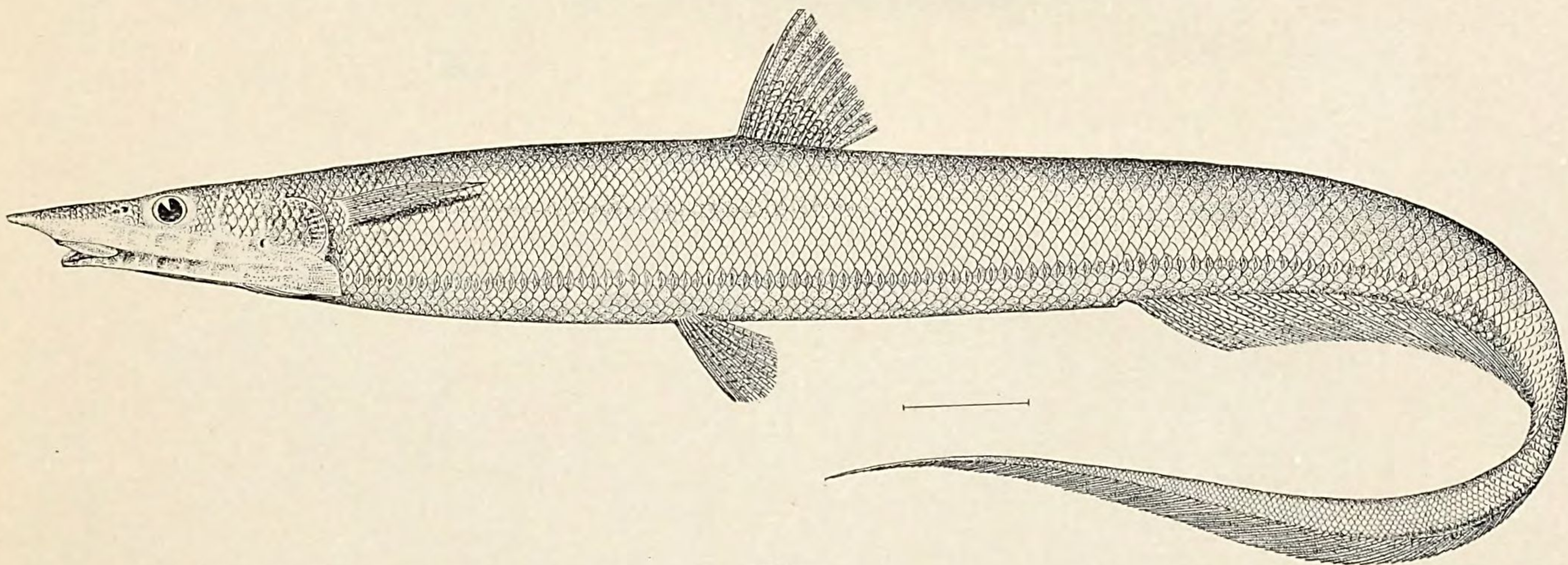
147. ARGYROPELECUS HEMIGYMNUS. (p. 126.)
 148a. ARGYROPELECUS OLFERSII. (p. 126.)



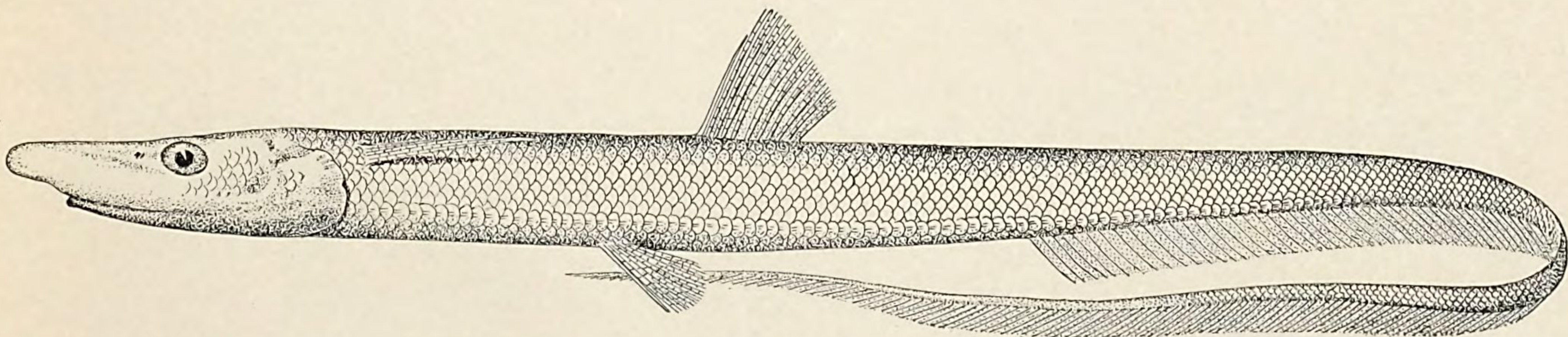
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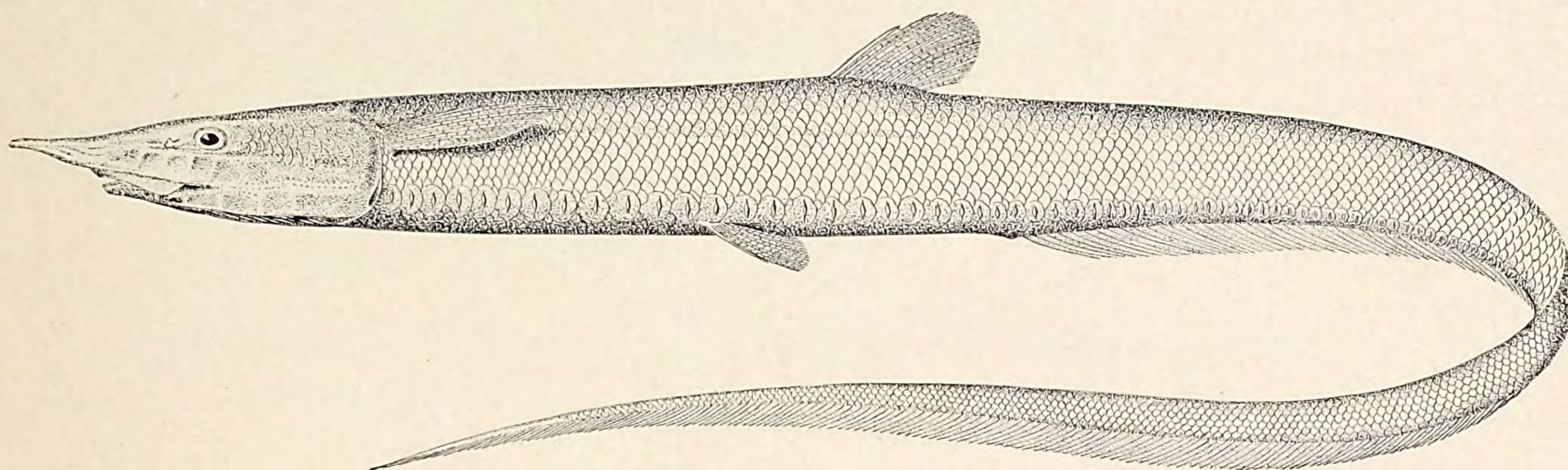
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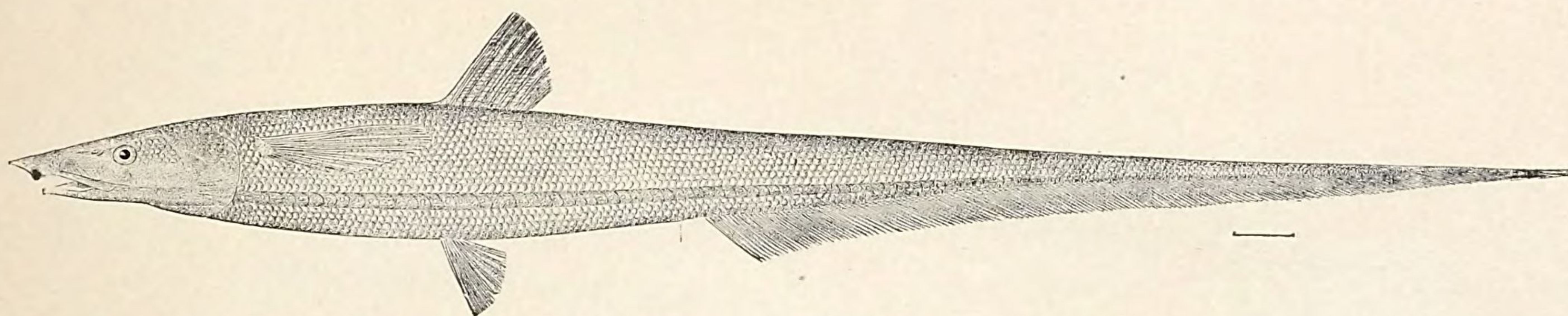
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150. OMOSUDIS LOWII. (p. 122.)
152. HALOSAURUS OWENI. (p. 130.)

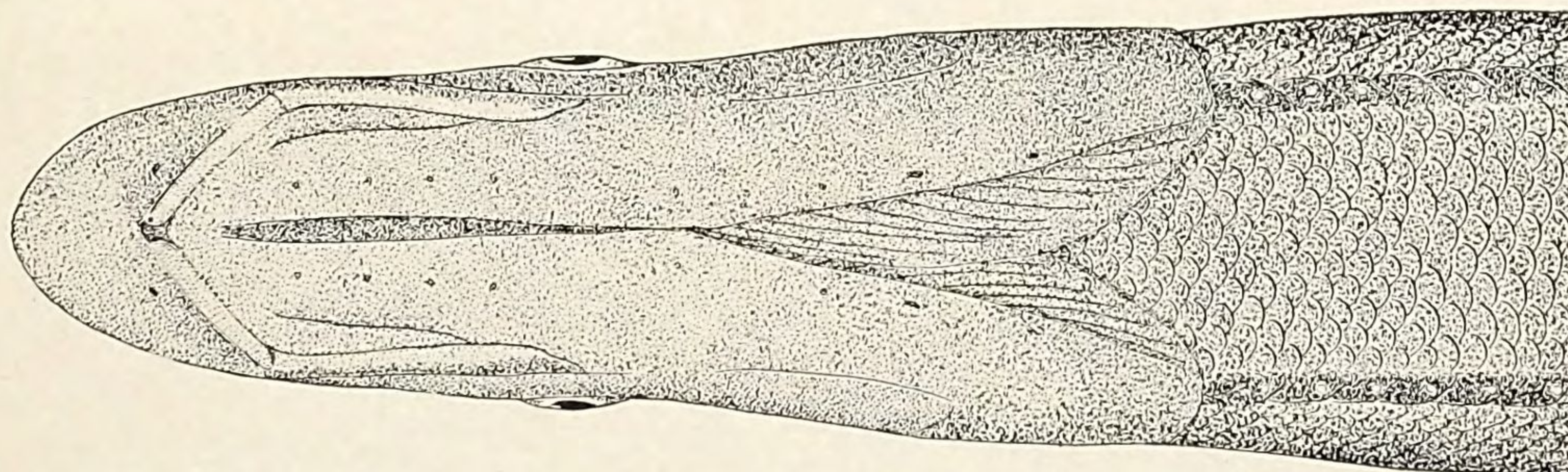
151. IDIACANTHUS FEROX. (p. 129.)
153. HALOSAURUS JOHNSONIANUS. (p. 131.)



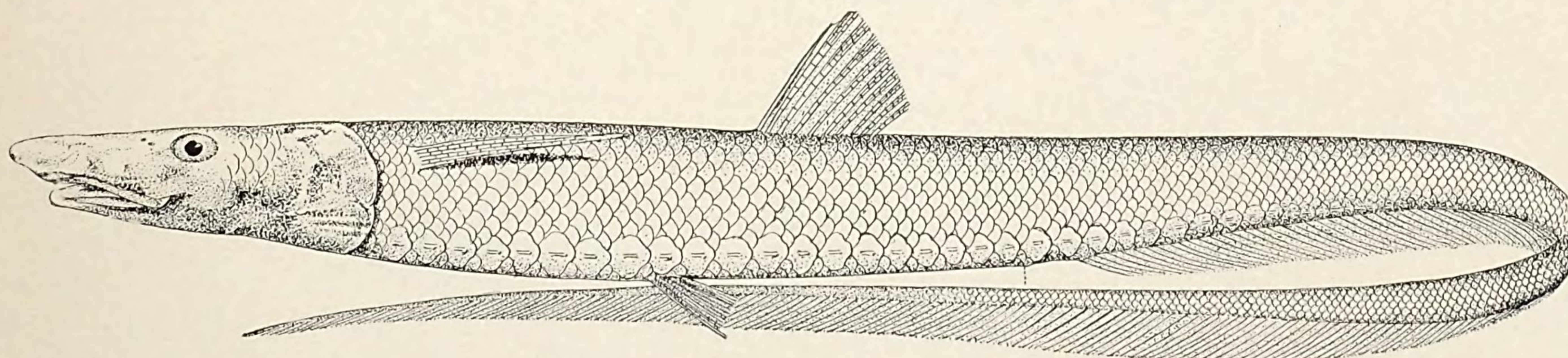
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155a

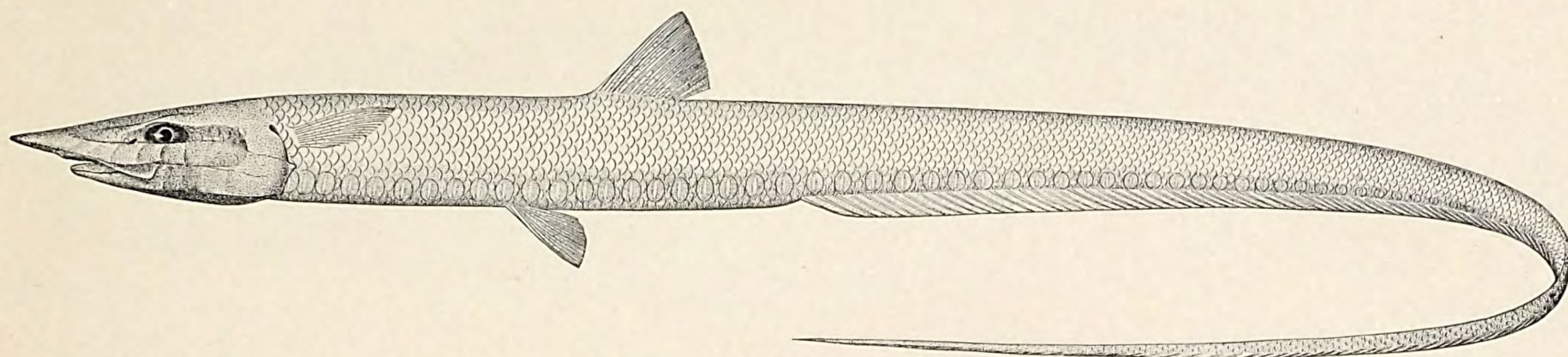


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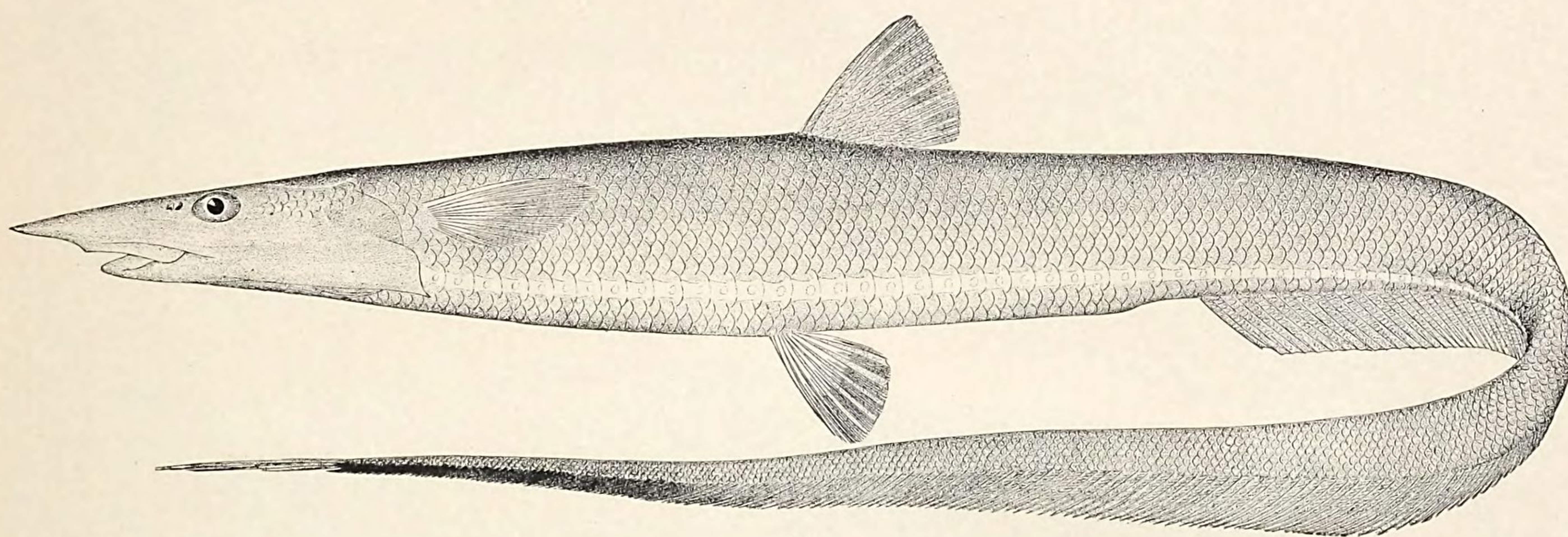
154. ALDROVANDIA ROSTRATA. (p. 132.)

155, 155a. ALDROVANDIA MACROCHIRA. (p. 133.)

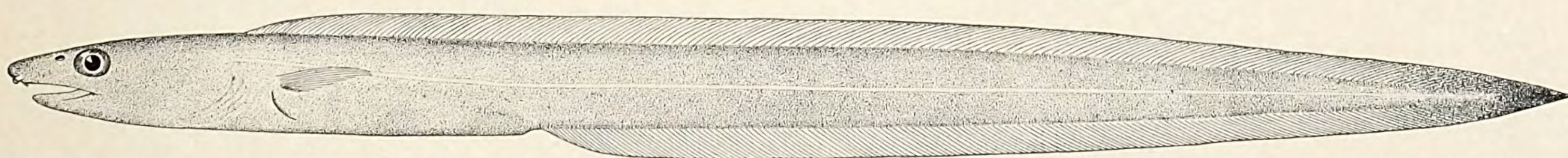
156. ALDROVANDIA PHALACRUS. (p. 134.)



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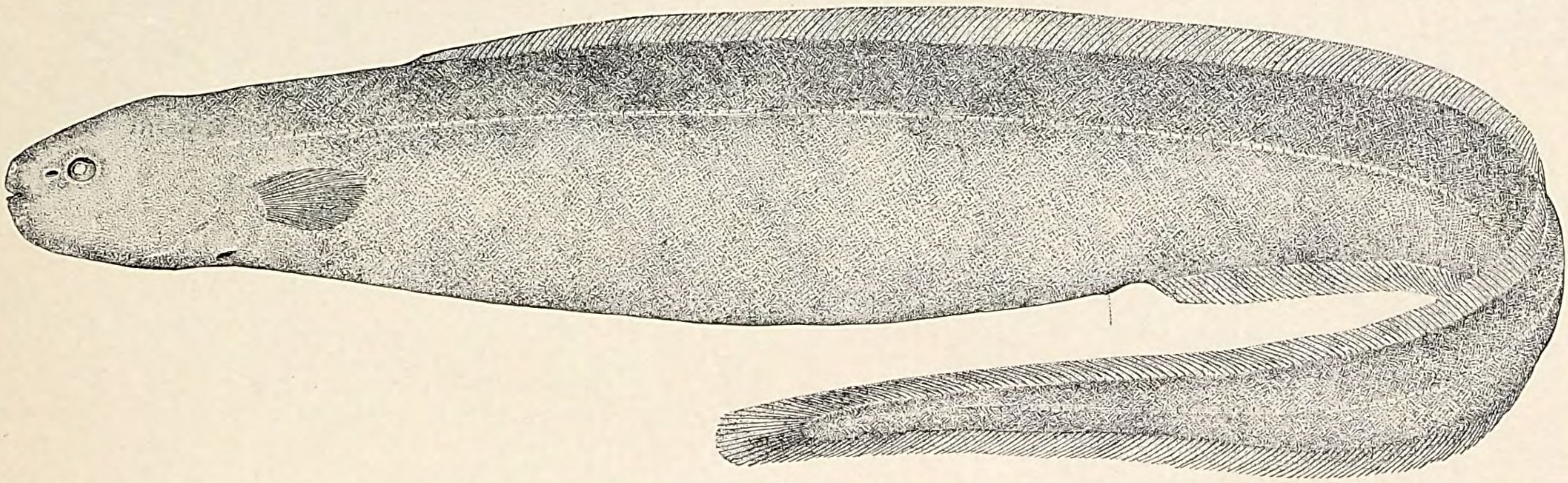
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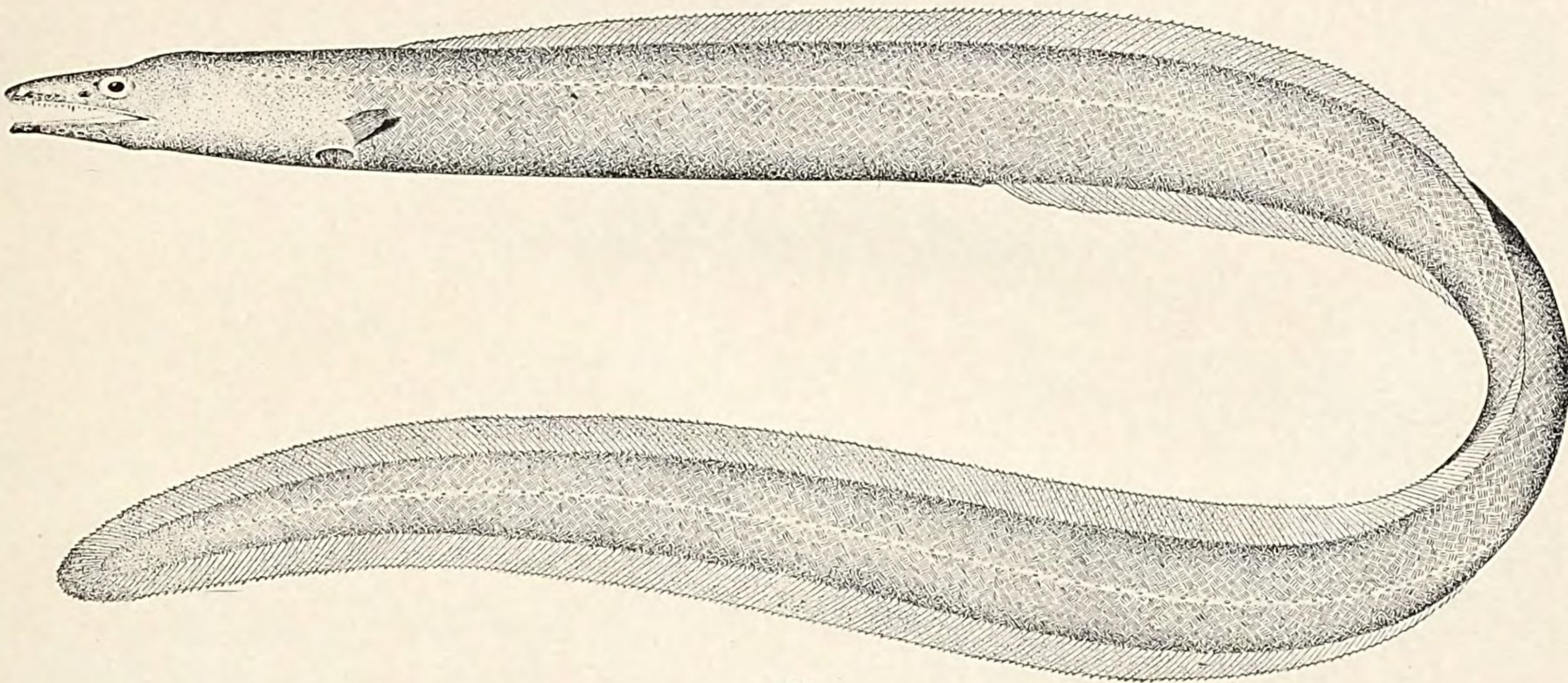
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157. ALDROVANDIA GRACILIS. (p. 134.)
159. CONGERMURÆNA FLAVA. (p. 138.)

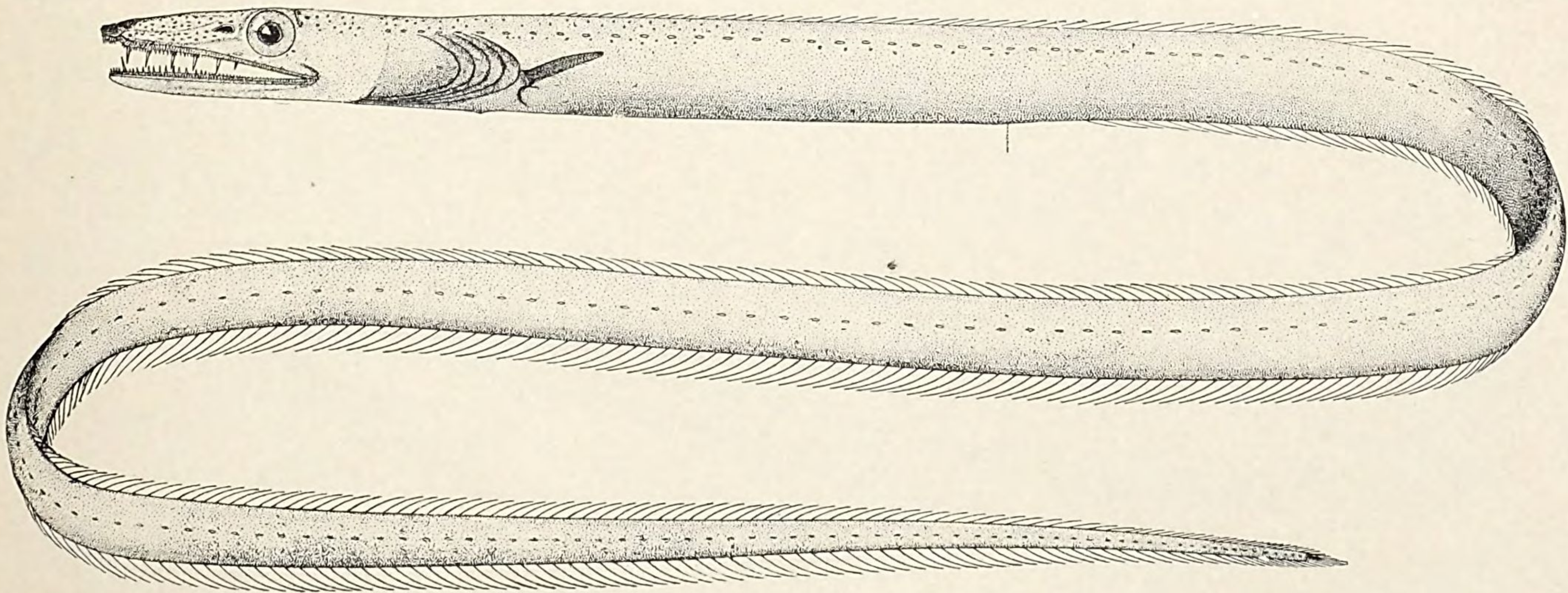
158. ALDROVANDIA PALLIDA. (p. 135.)
160. UROCONGER VICINUS. (p. 138.)



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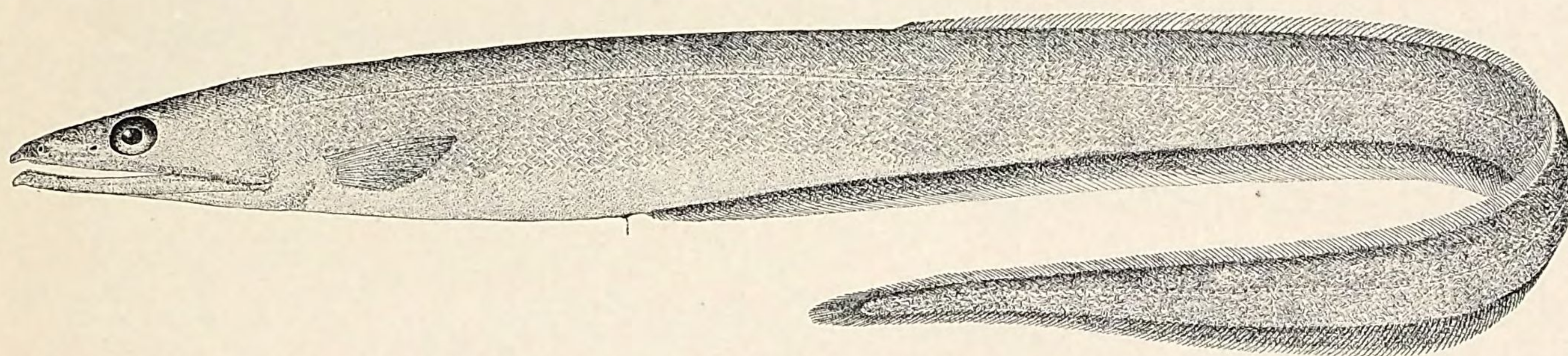


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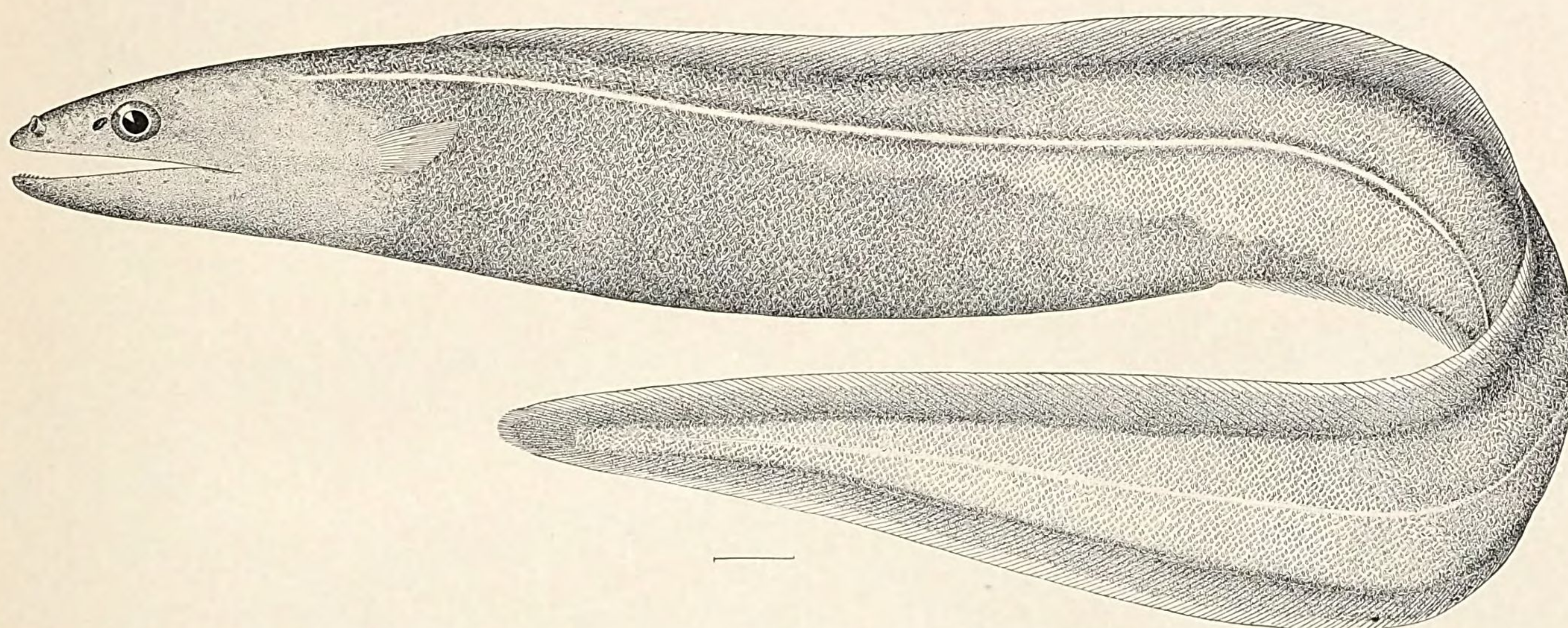
161. SIMENCHELYS PARASITICUS. (p. 139.)

162. ILYOPHIS BRUNNEUS. (p. 141.)

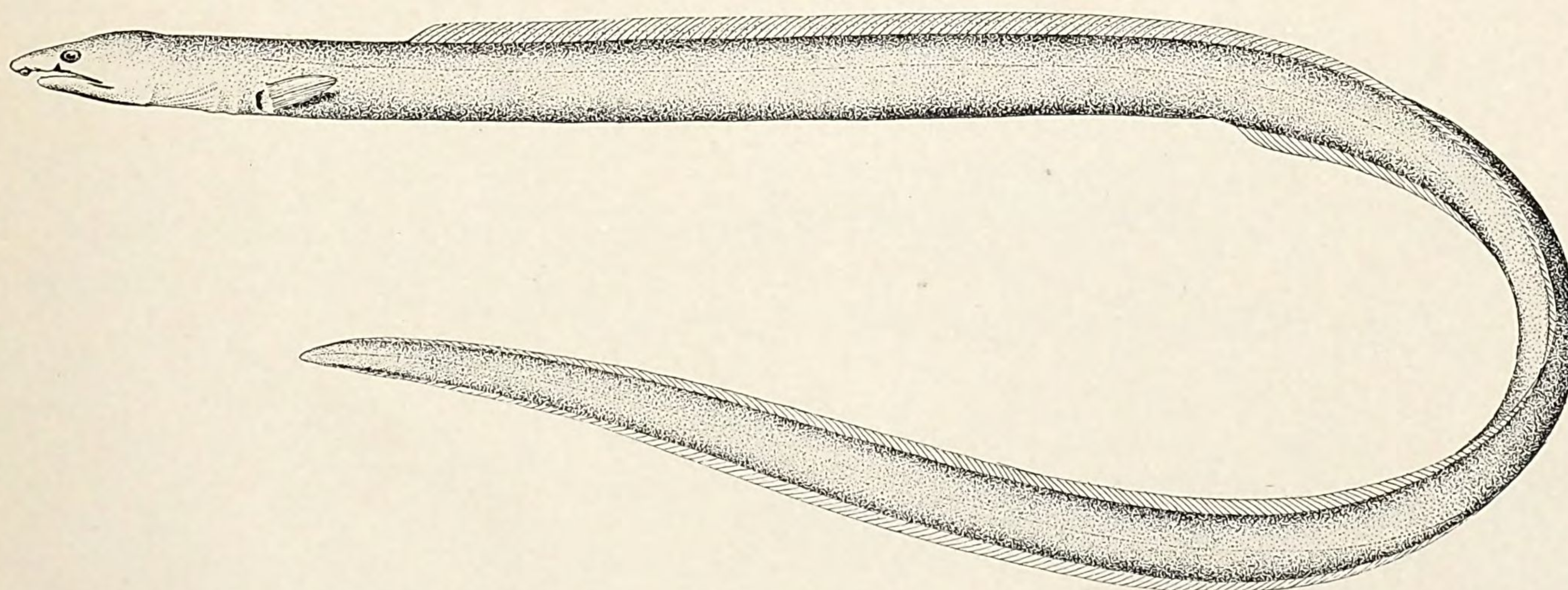
163. HOPLUNNIS DIOMEDIANUS. (p. 146.)



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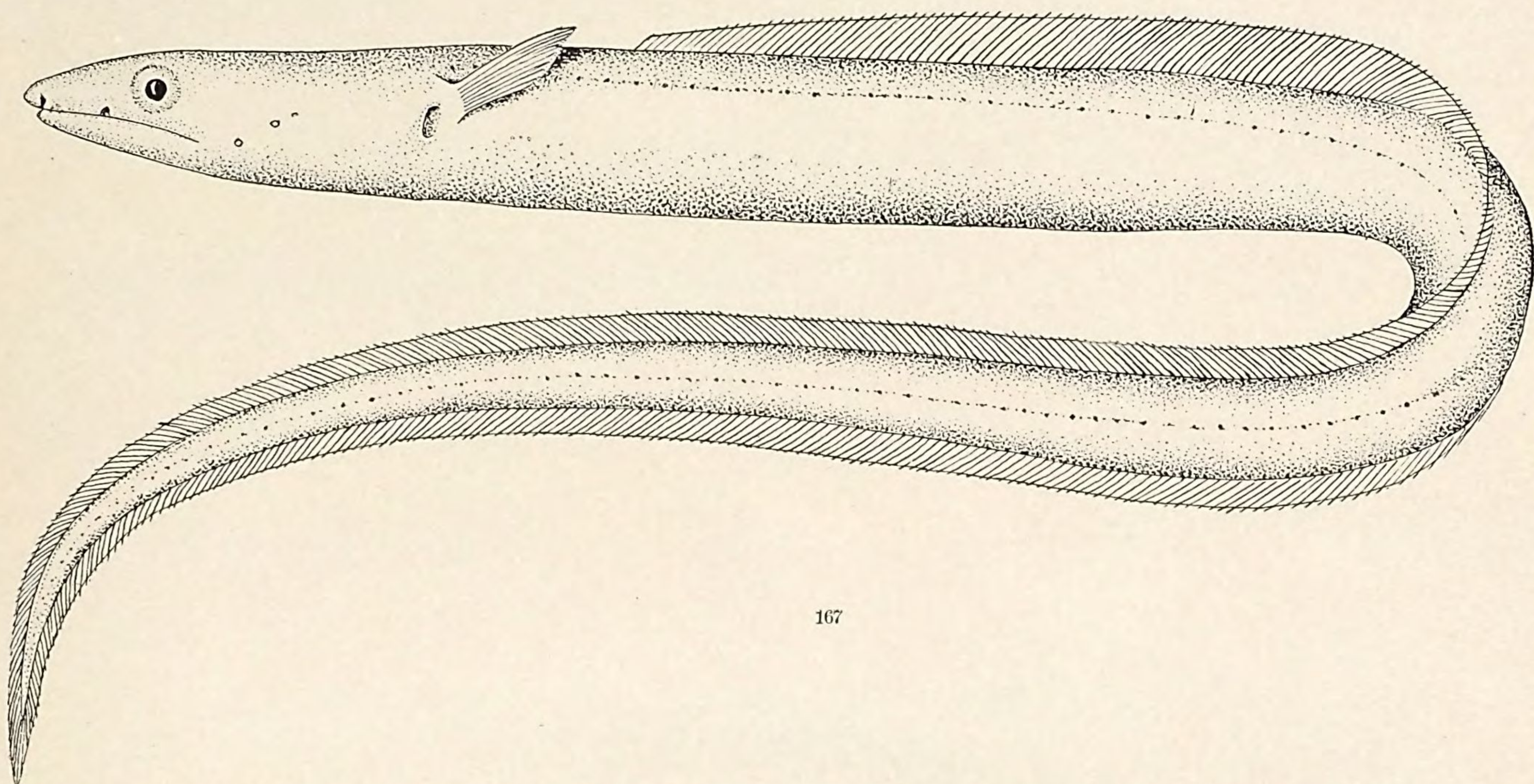


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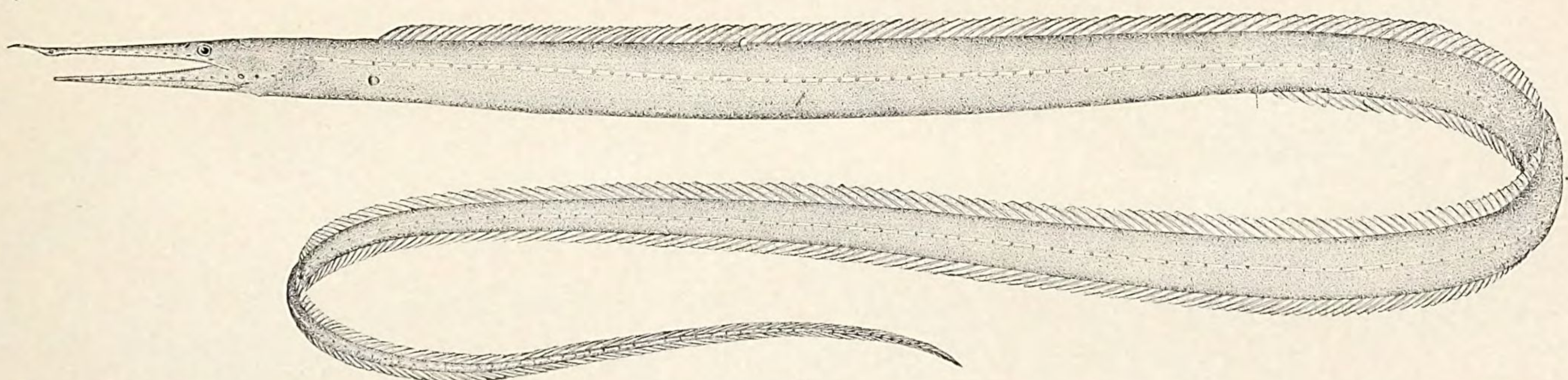
164. SYNAPHOBRANCHUS PINNATUS. (p. 143.)

165. HISTIOBRANCHUS INFERNALIS. (p. 145.)

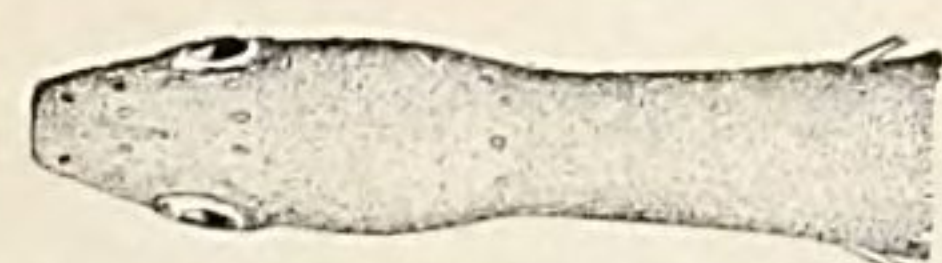
166. PSEUDONOPHIS CRUENTIFER. (p. 147.)



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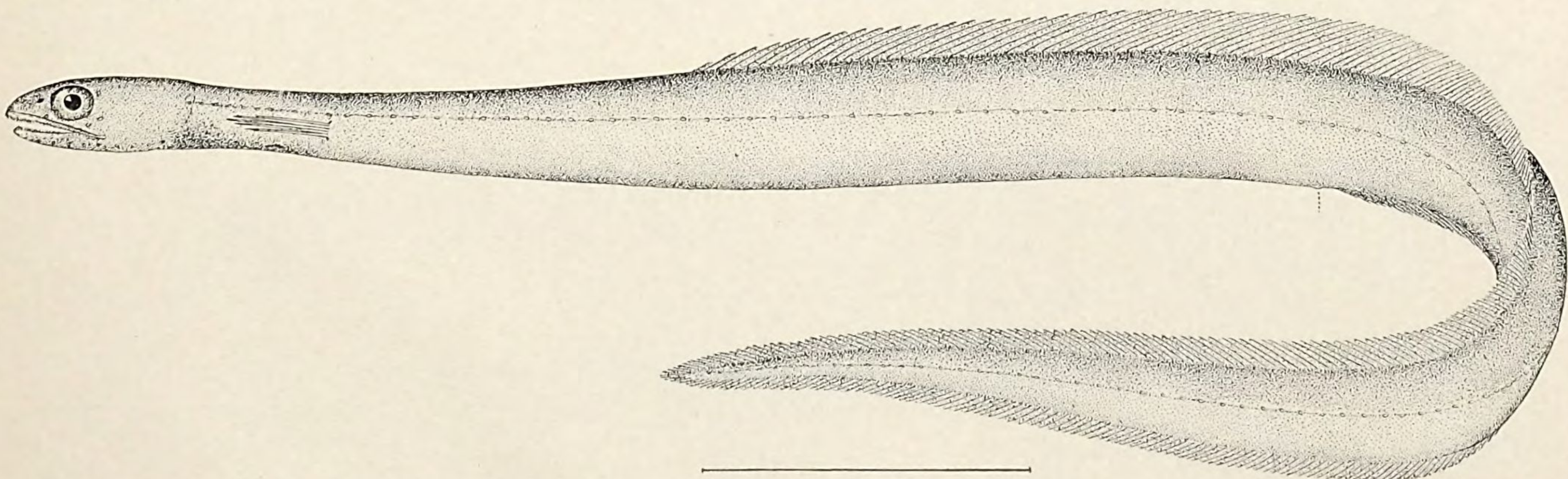
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169a



169b

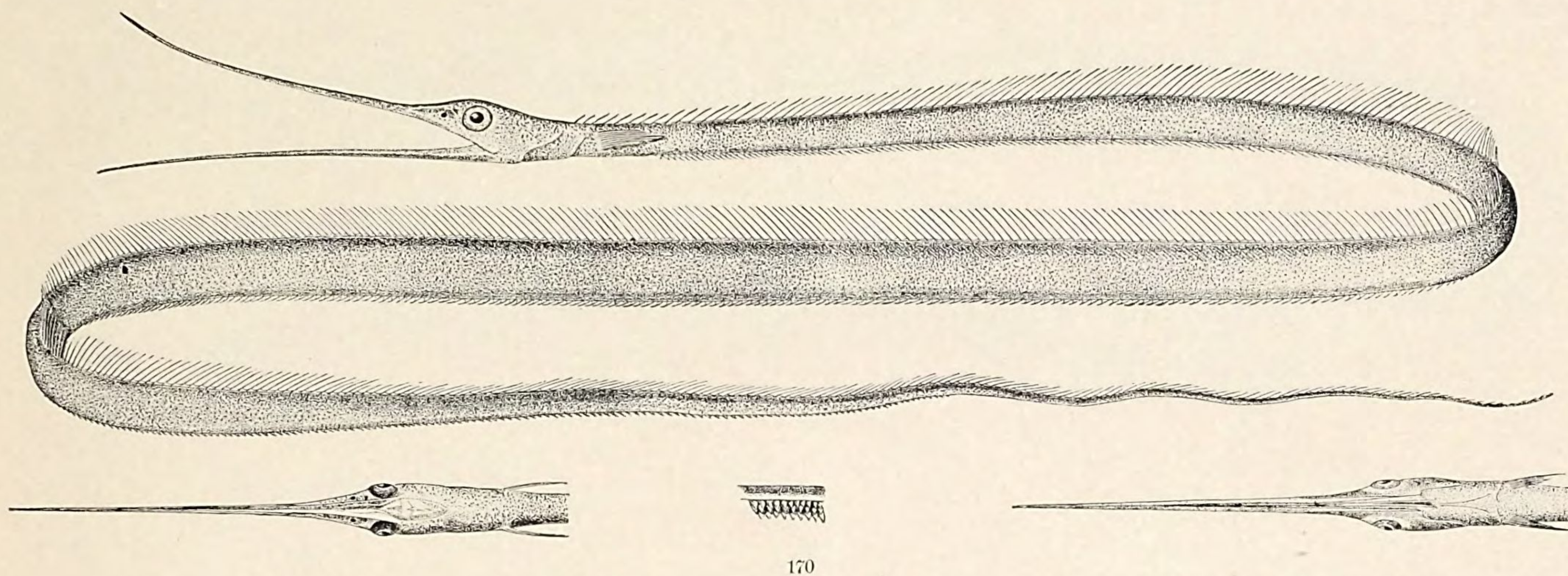


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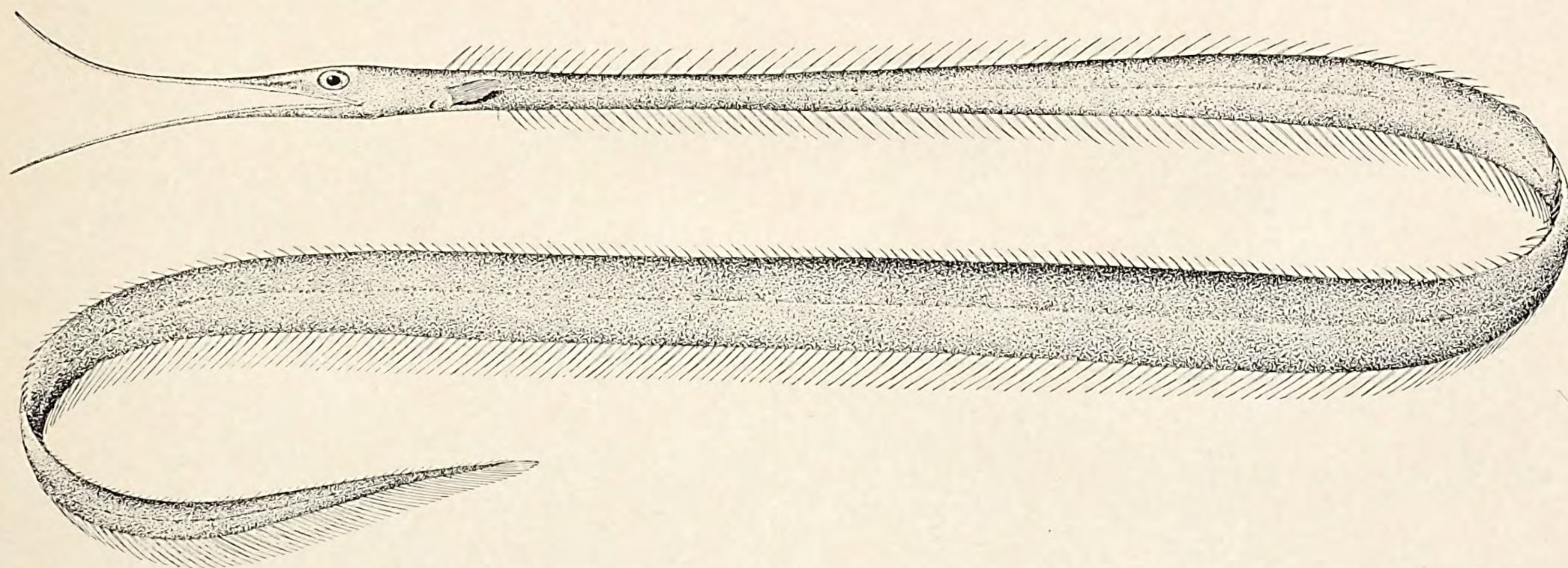
167. MYRUS PACHYRHYNCHUS. (p. 148.)

169, 169a, b. DERICHTHYS SERPENTINUS. (p. 161.)

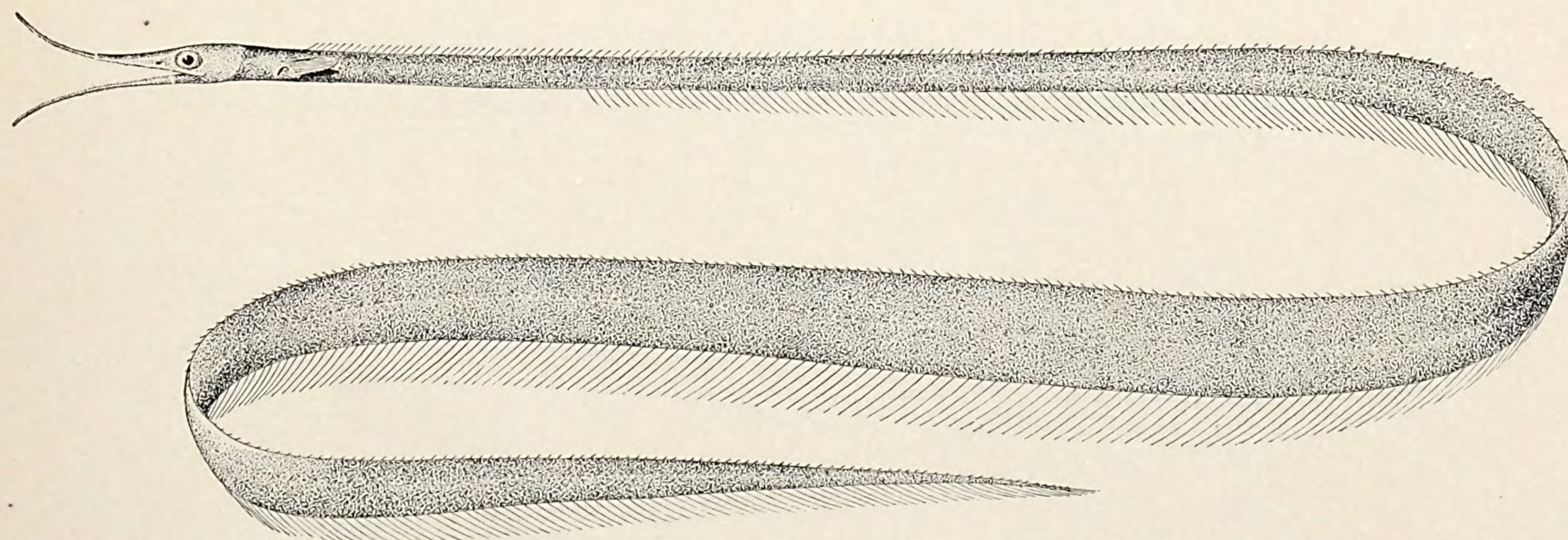
168. VENEFICA PROCERA. (p. 149.)



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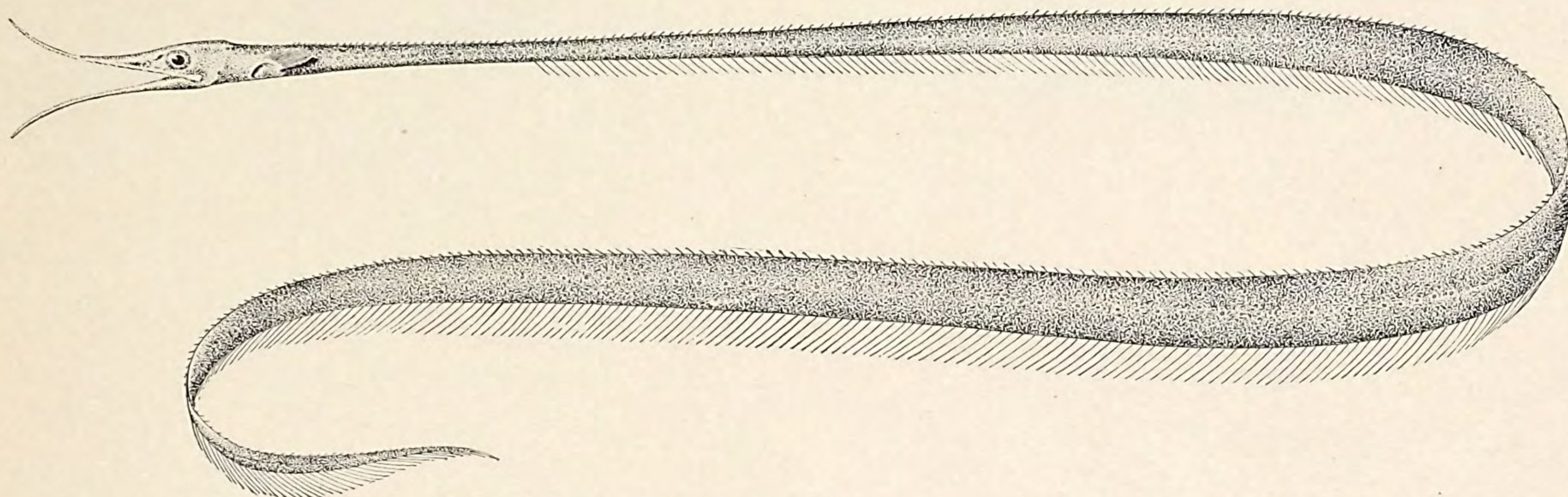


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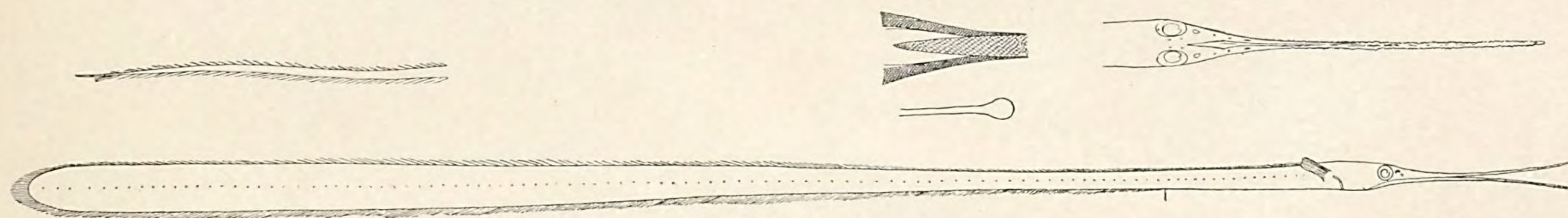
170. NEMICHTHYS SCOLOPACEUS. (p. 152.)

171. LABICHTHYS CARINATUS. (p. 153.)

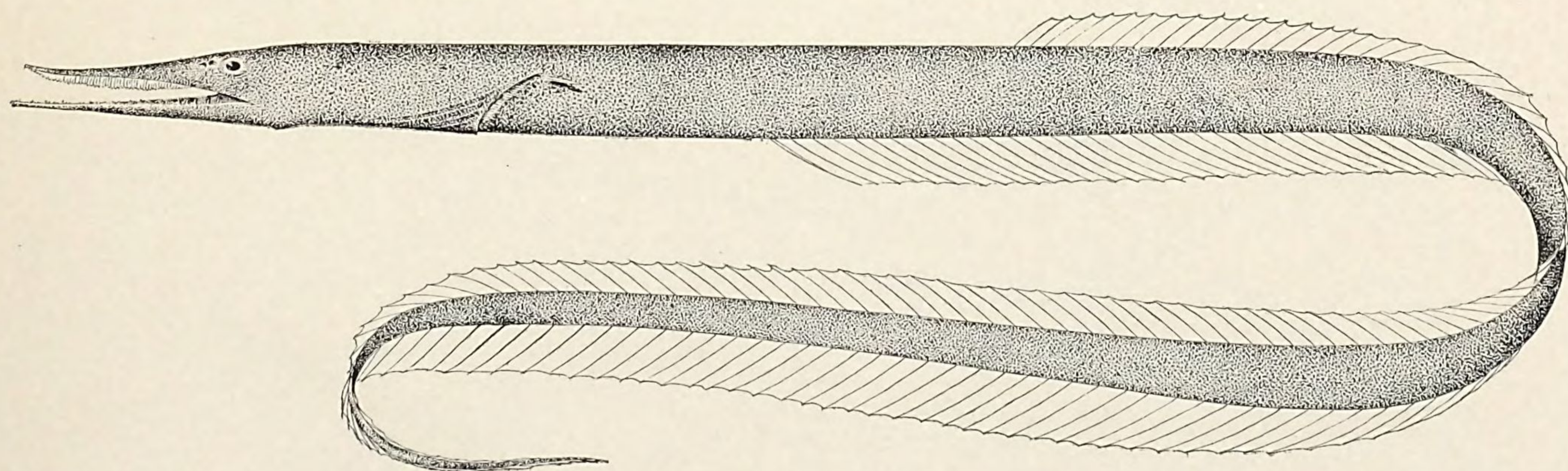
172. LABICHTHYS ELONGATUS. (p. 153.)



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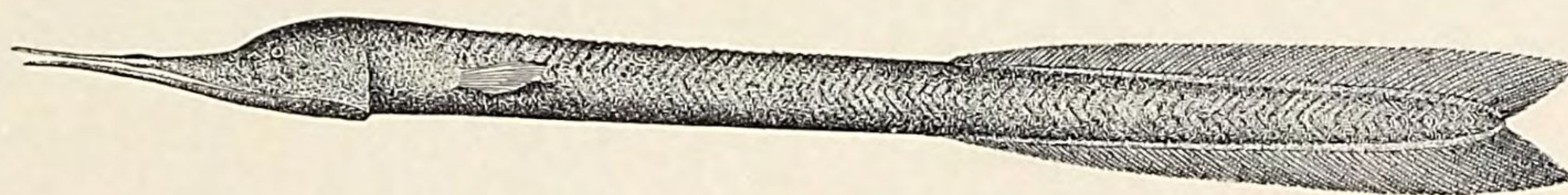


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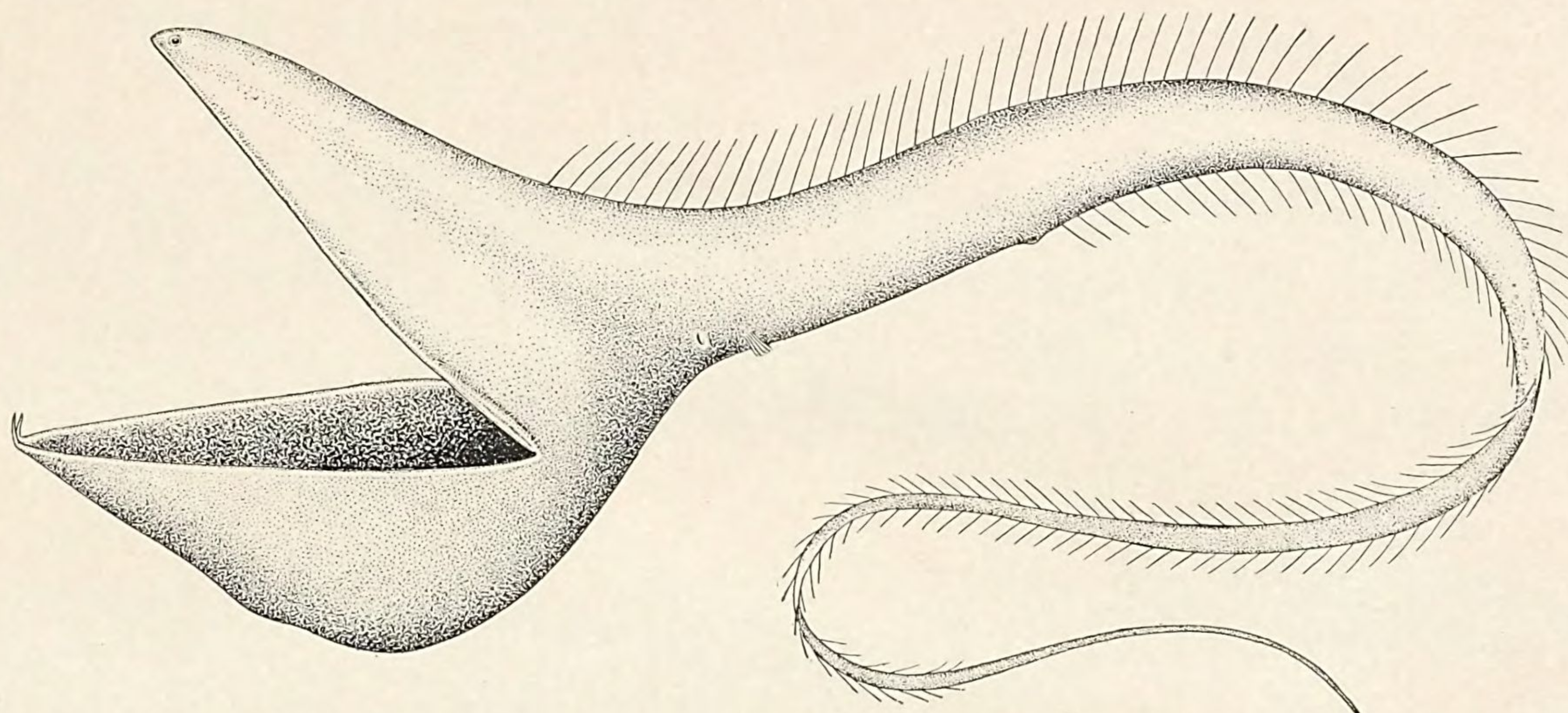
173. LABICHTHYS INFANS. (p. 153.)

174. LABICHTHYS INFANS (AFTER GÜNTHER). (p. 153.)

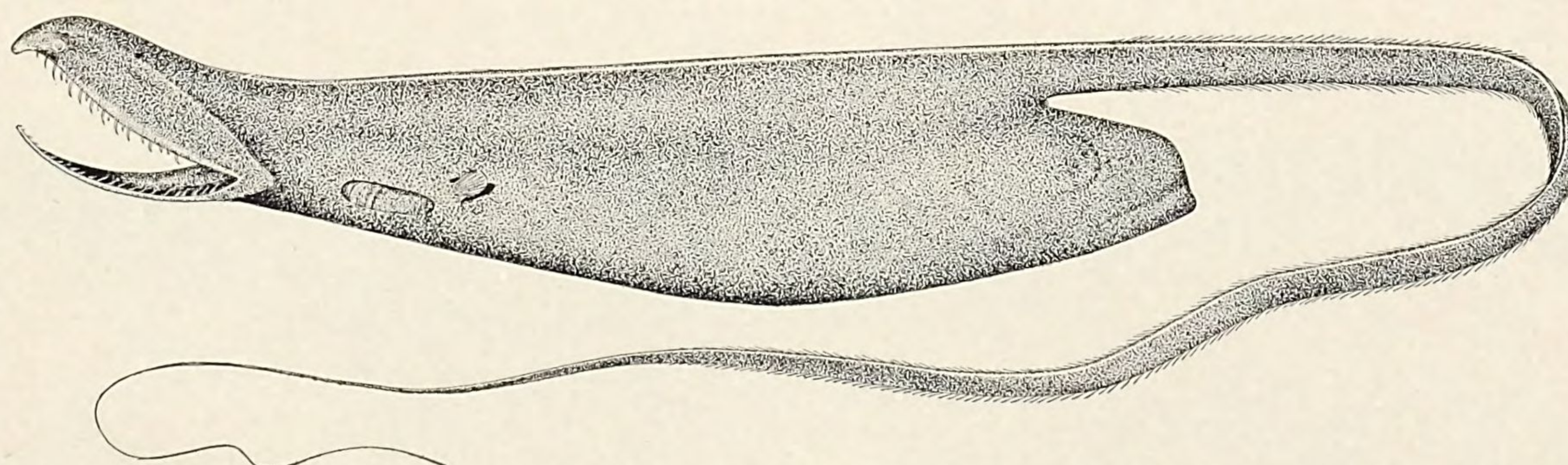
175. SERRIVOMER BEANII. (p. 155.)



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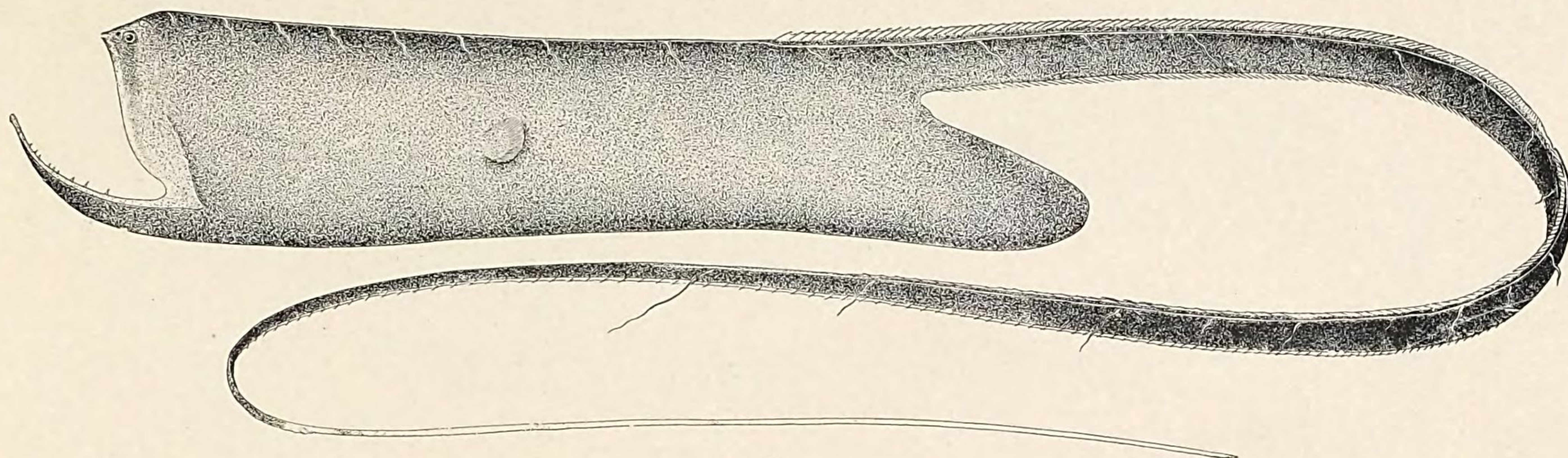


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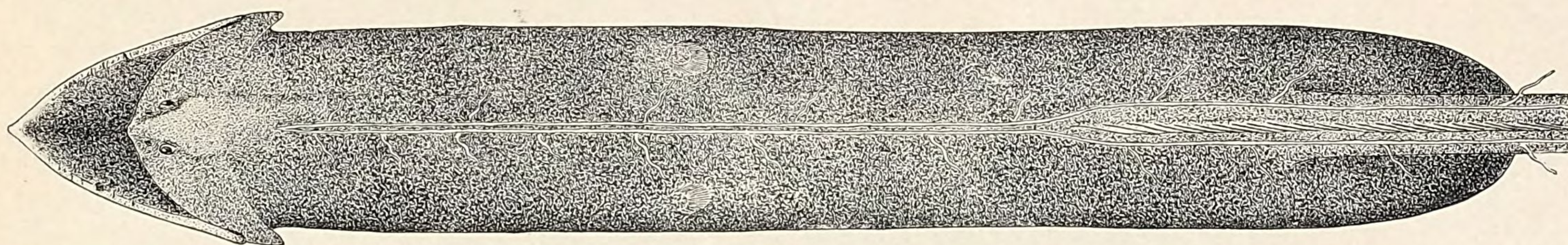
176. CYEMA ATRUM. (p. 154.)

177. EURYPHARYNX PELECANOIDES. (p. 157.)

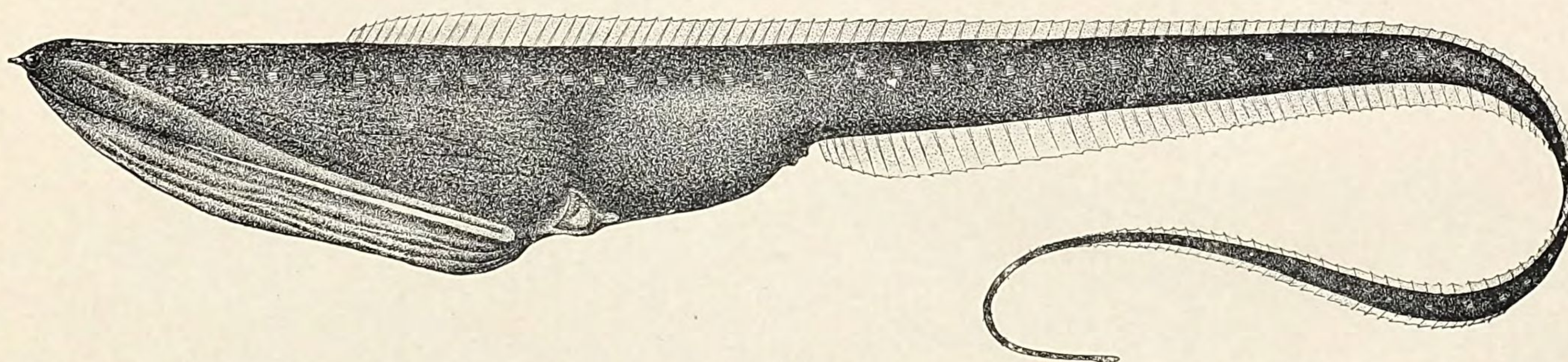
178. SACCOPHARYNX FLAGELLUM. (p. 159.)



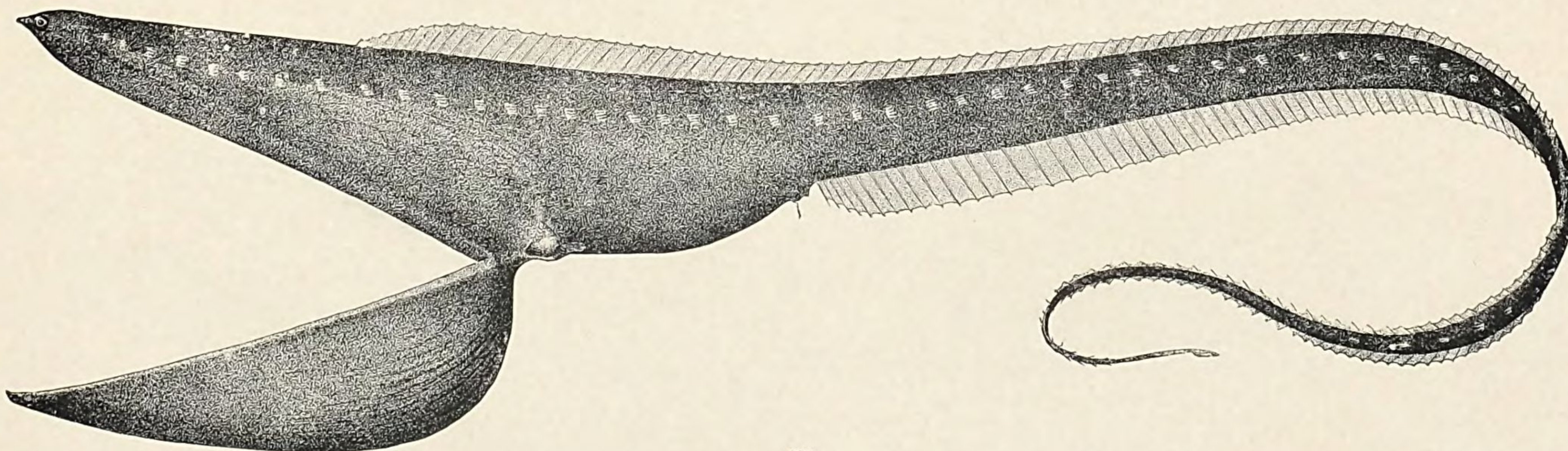
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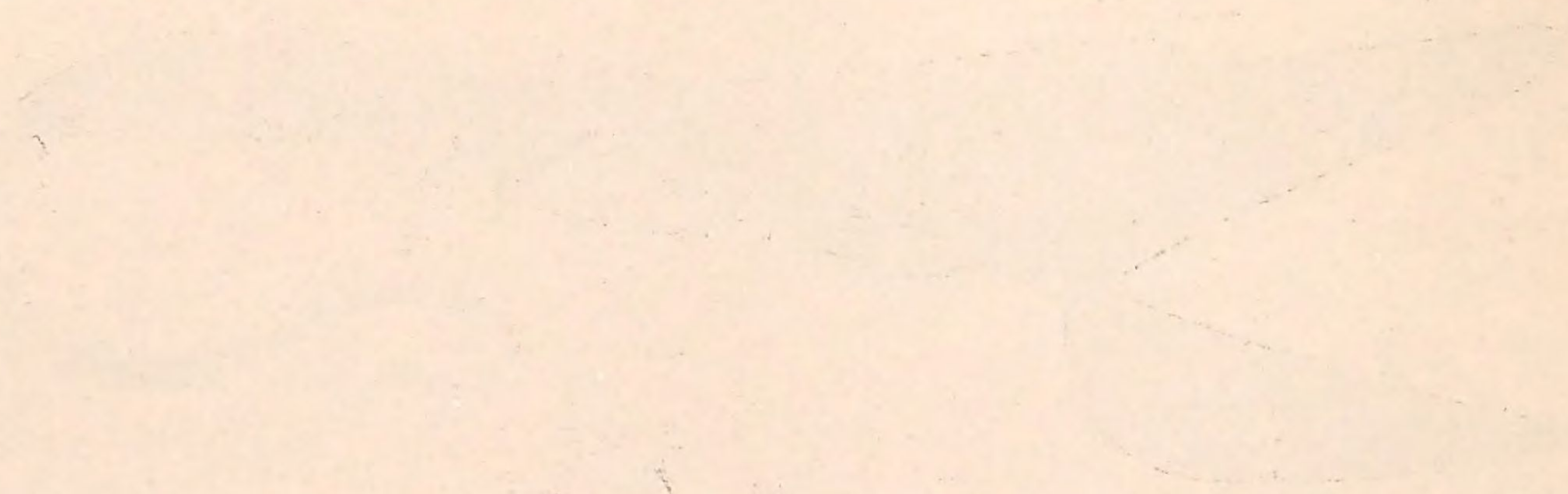
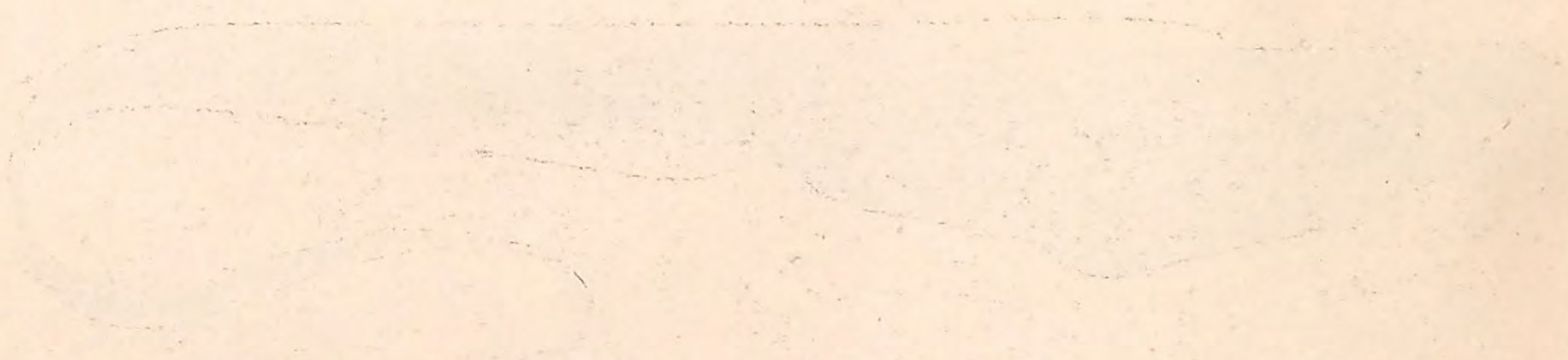
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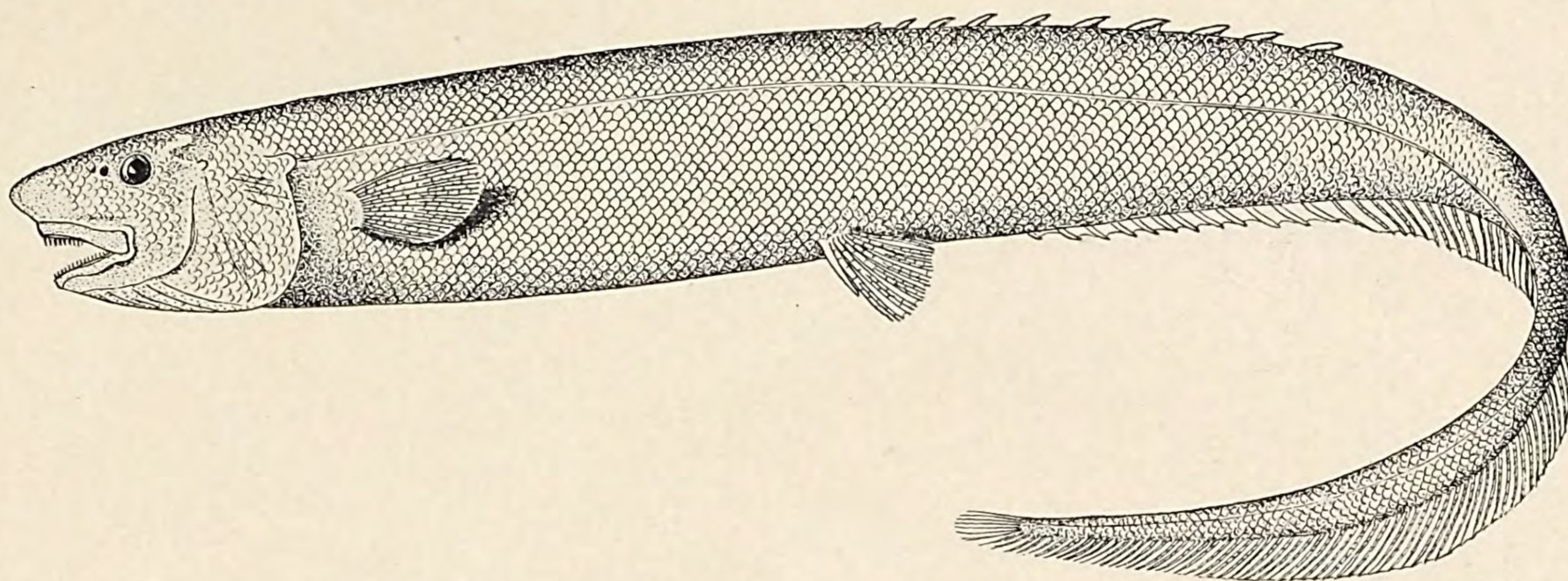
179, 180. SACCOPHARYNX FLAGELLUM. (p. 157.)

181, 182. GASTROSTOMUS BAIRDII. (p. 159.)

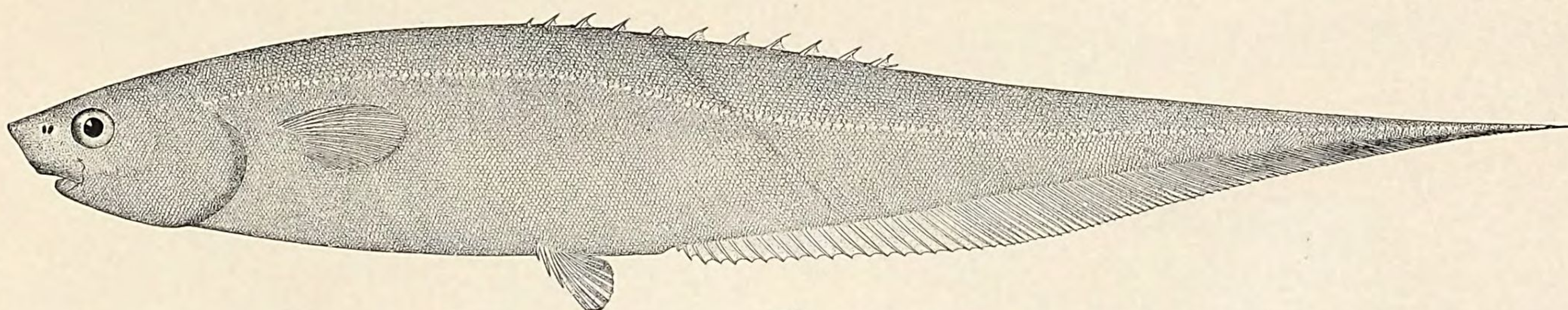


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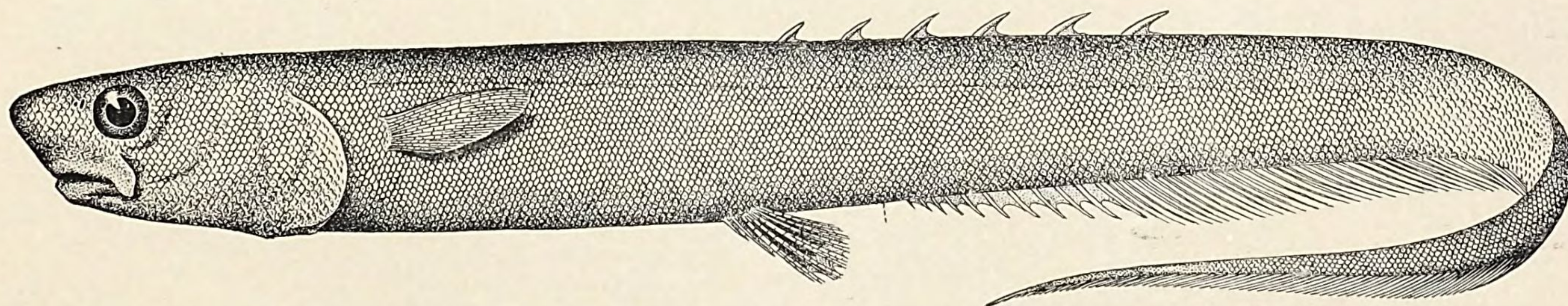
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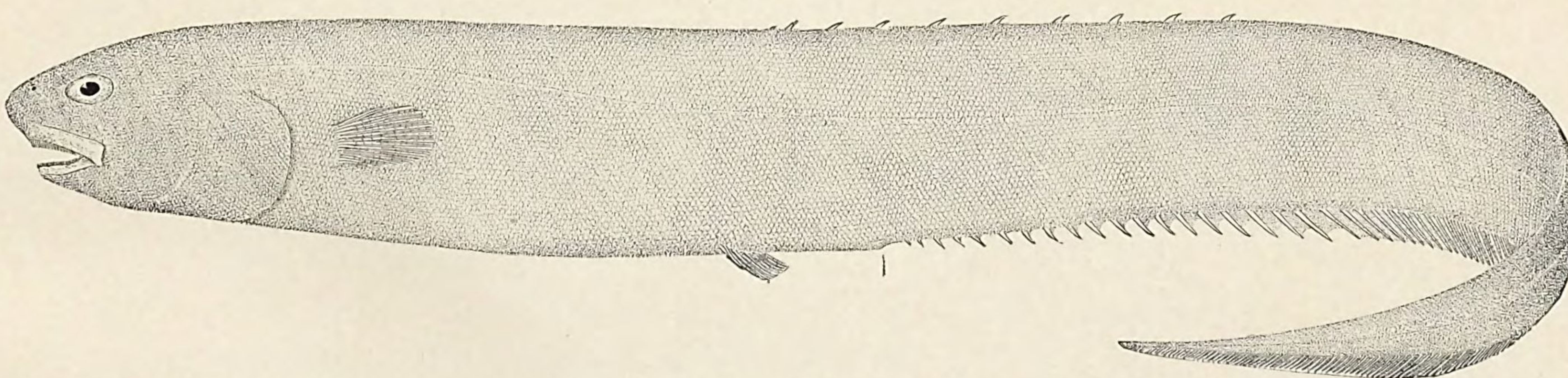
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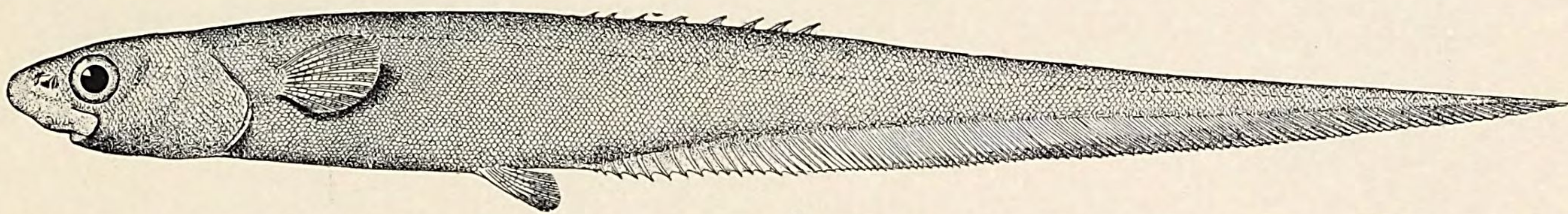
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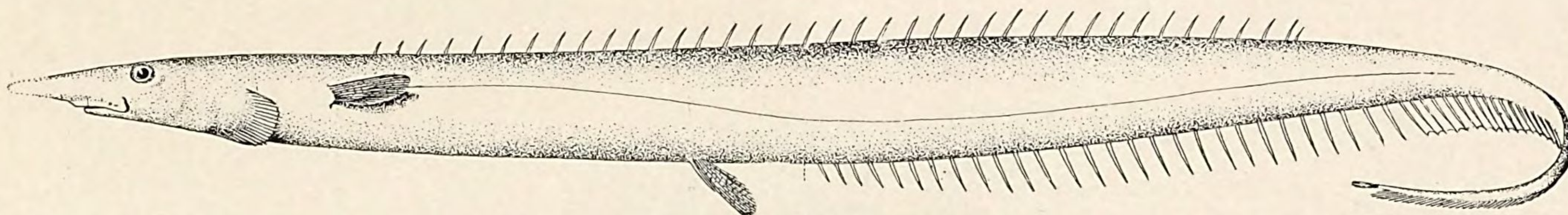
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183. NOTACANTHUS NASUS. (p. 164.)
185. NOTACANTHUS BONAPARTII. (p. 166.)

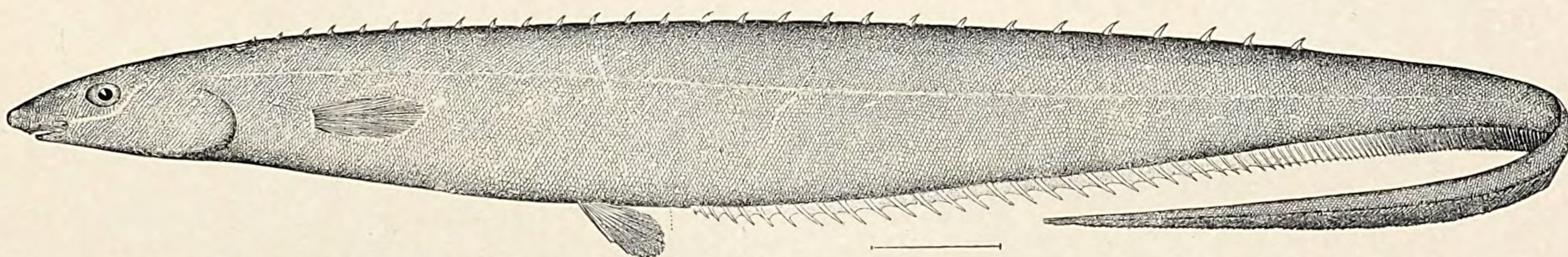
184. NOTACANTHUS ANALIS. (p. 165.)
186. NOTACANTHUS PHASGANORUS. (p. 167.)



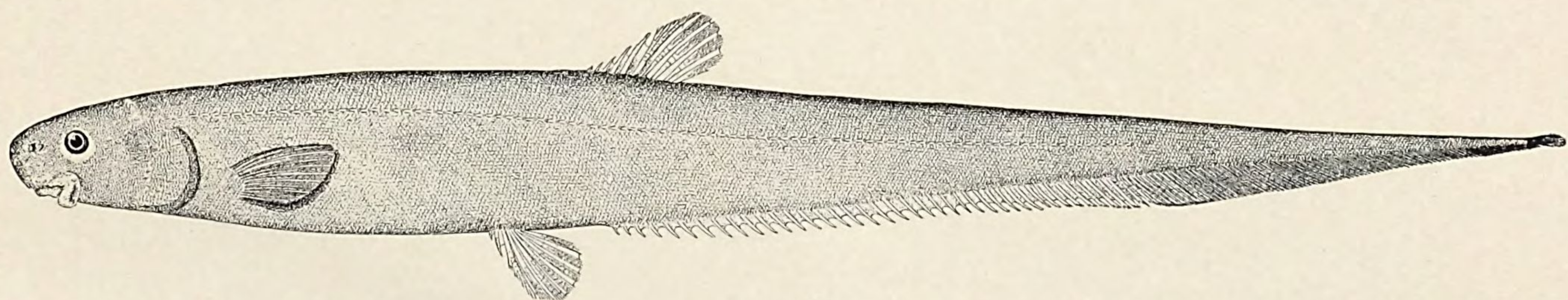
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187. GIGLIOLIA MOSELEYI. (p. 169.)
189. MACDONALDIA ROSTRATA. (p. 171.)

188. POLYACANTHONOTUS RISSOANUS. (p. 170.)
190. LIPOGENYS GILLII. (p. 173.)

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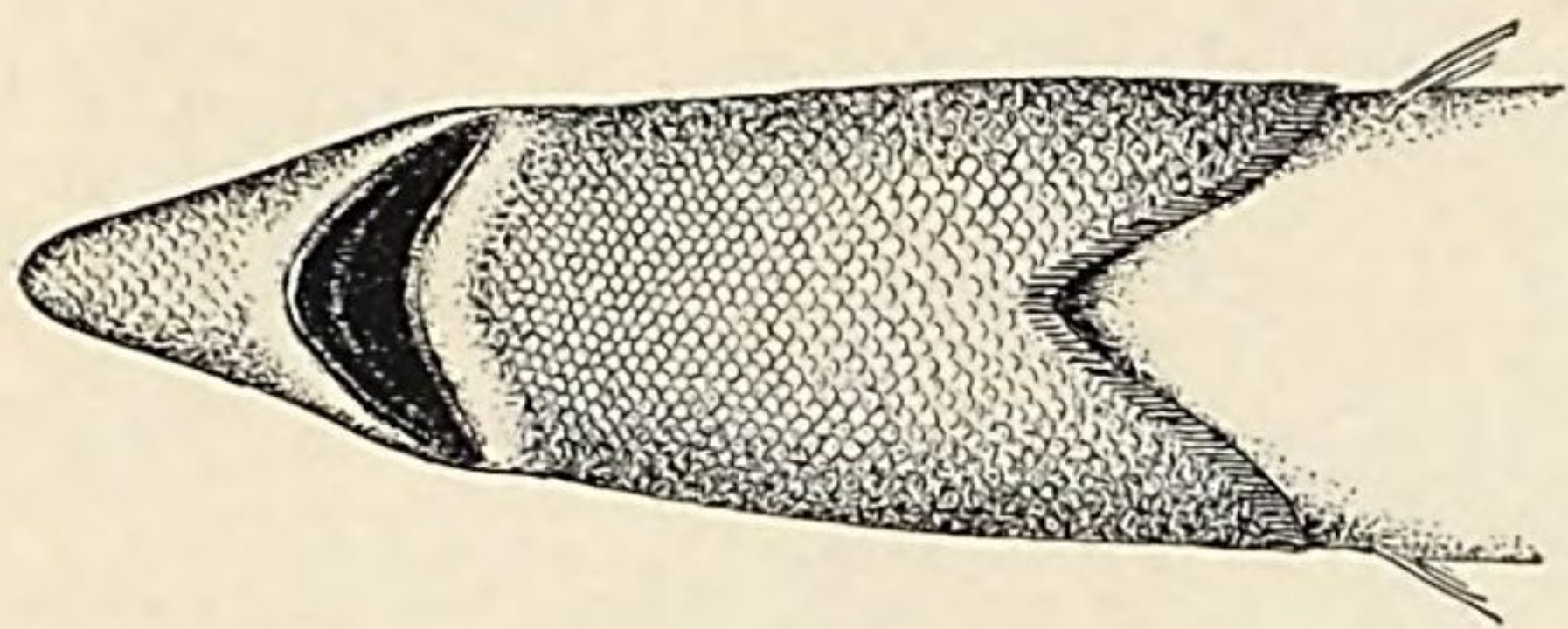
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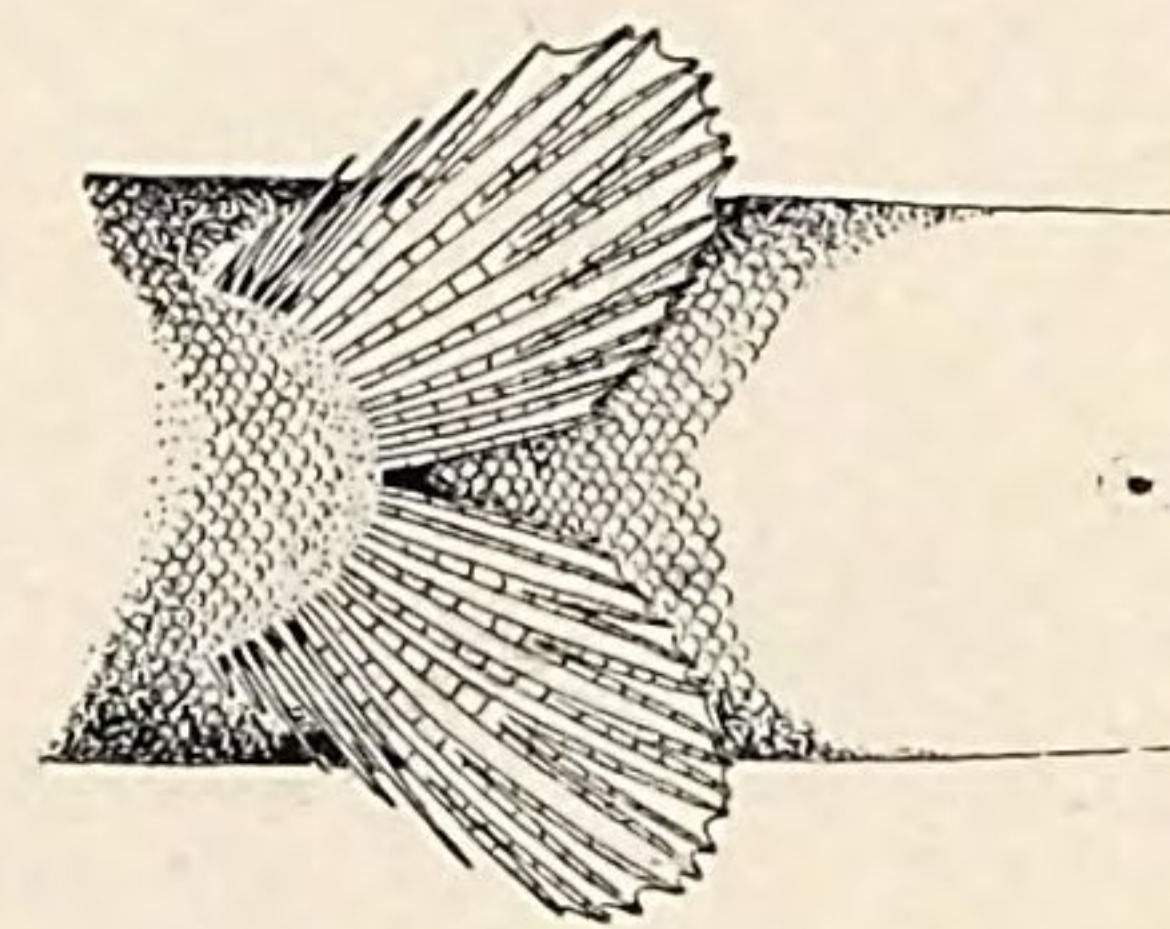
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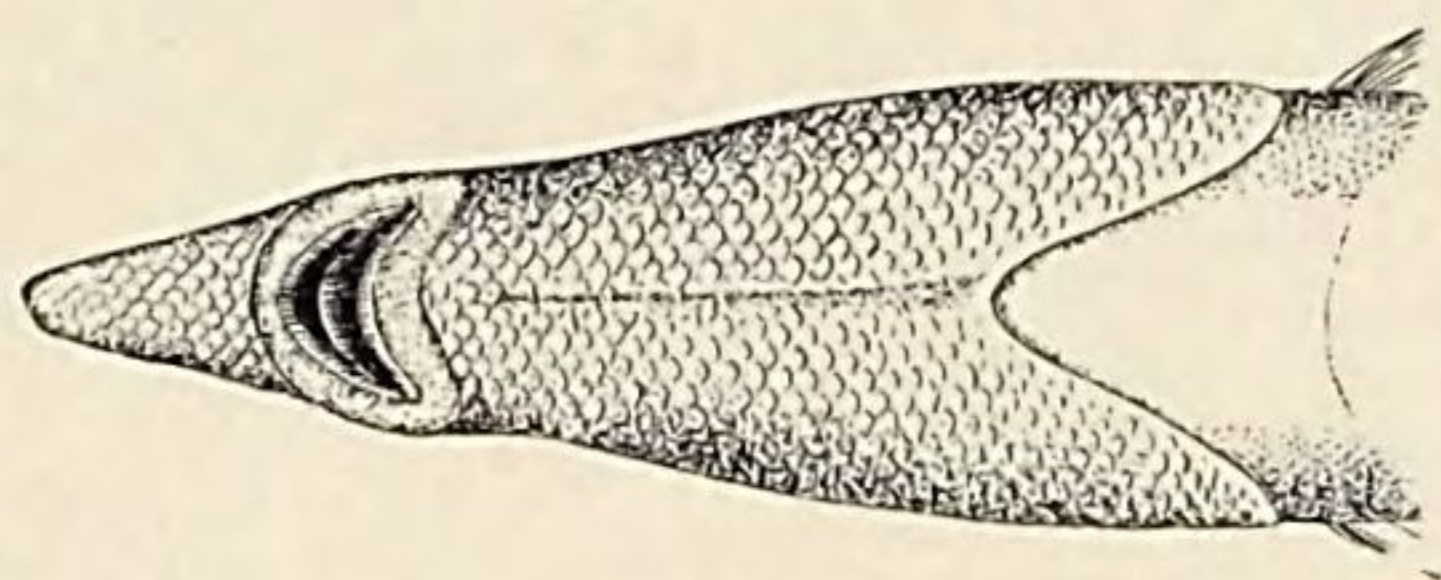
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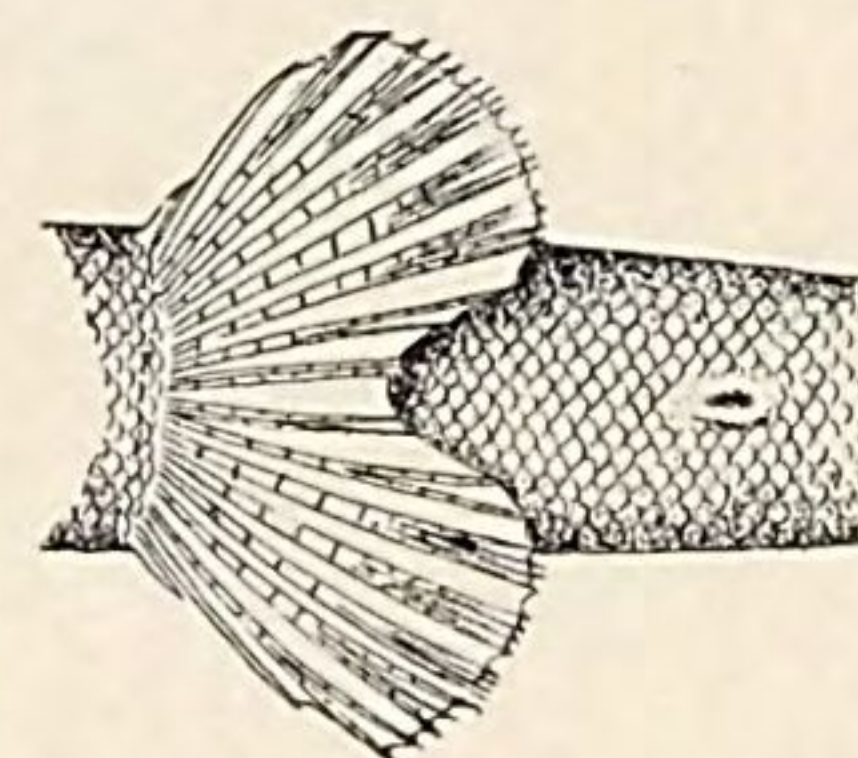
191a.



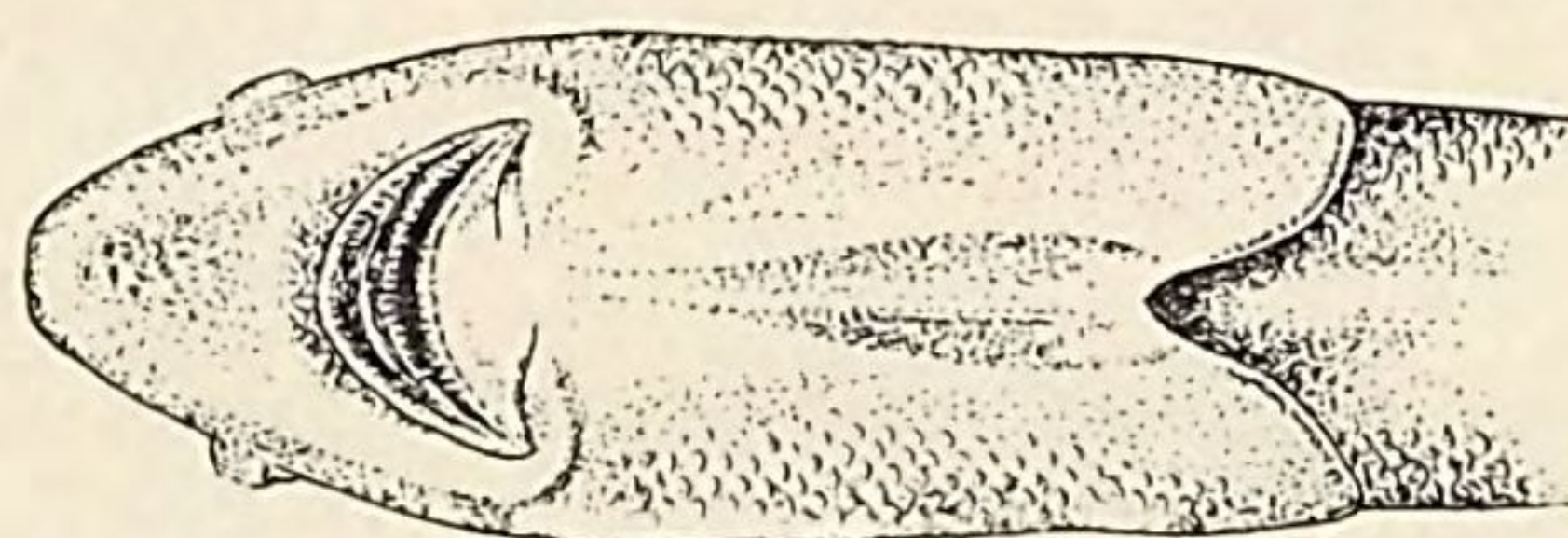
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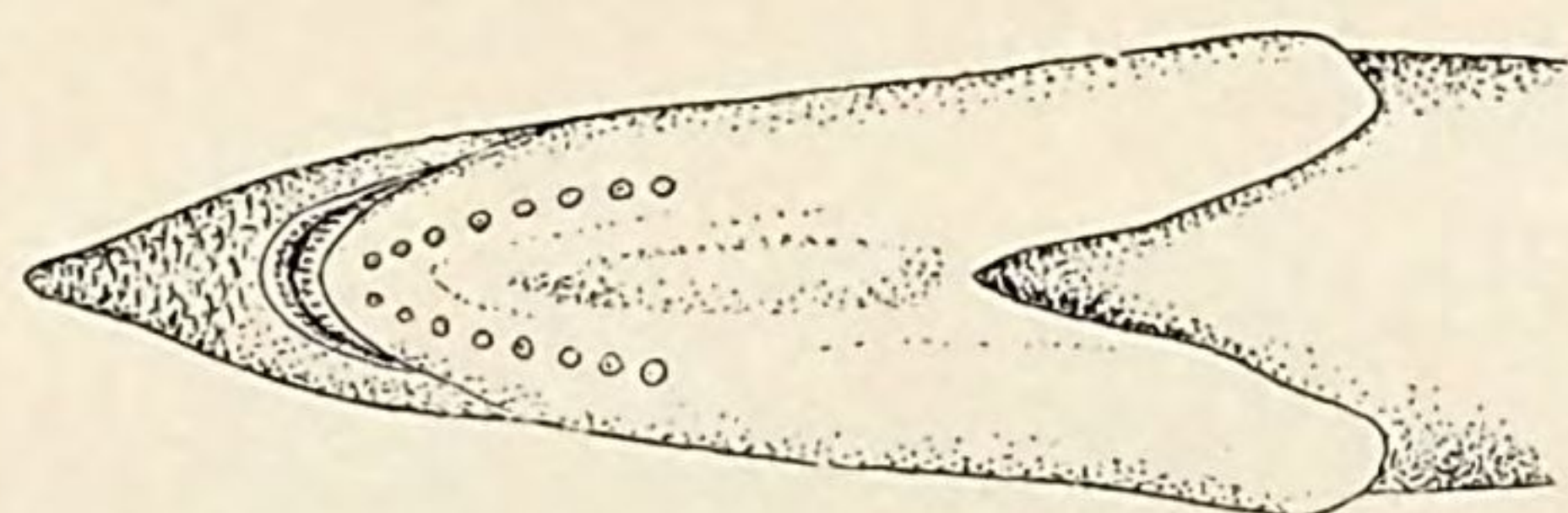
192a.



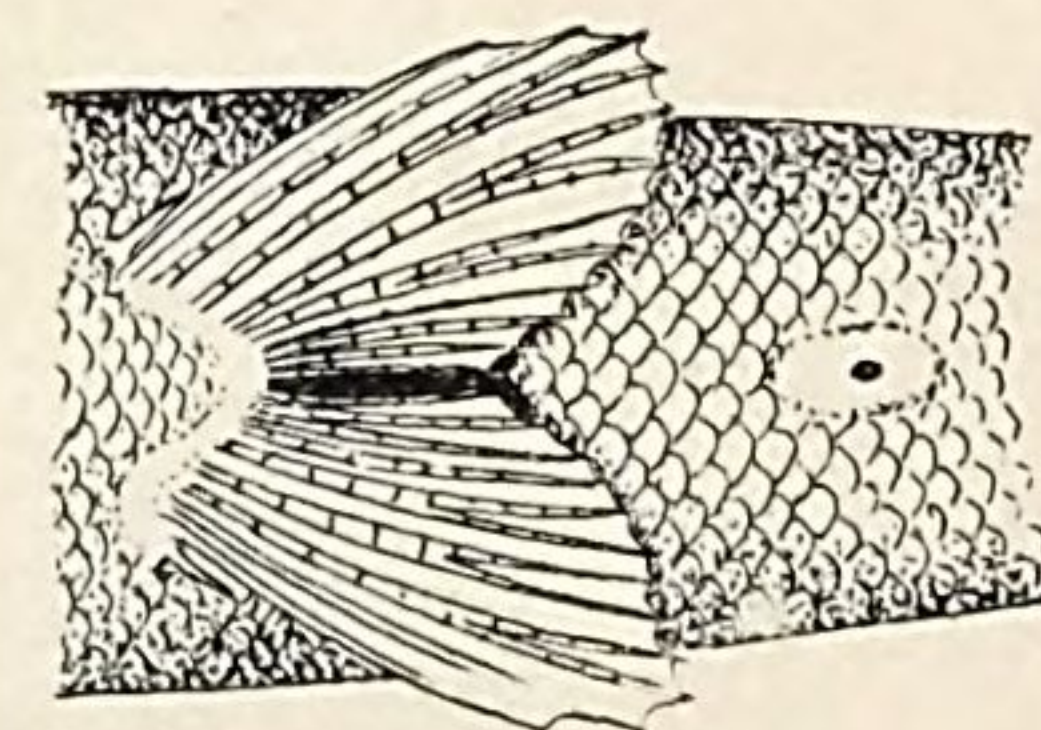
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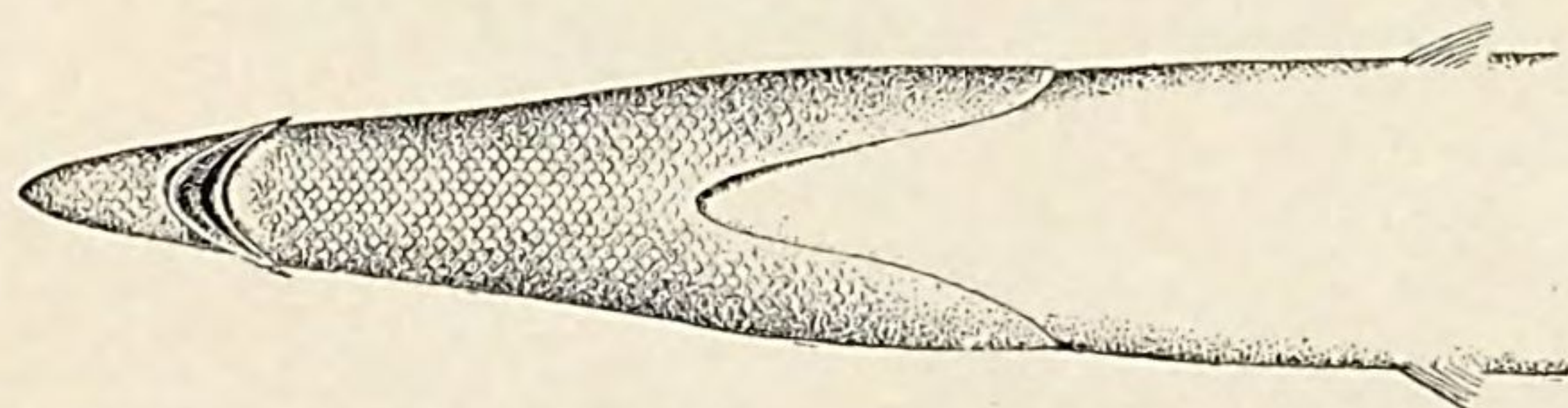
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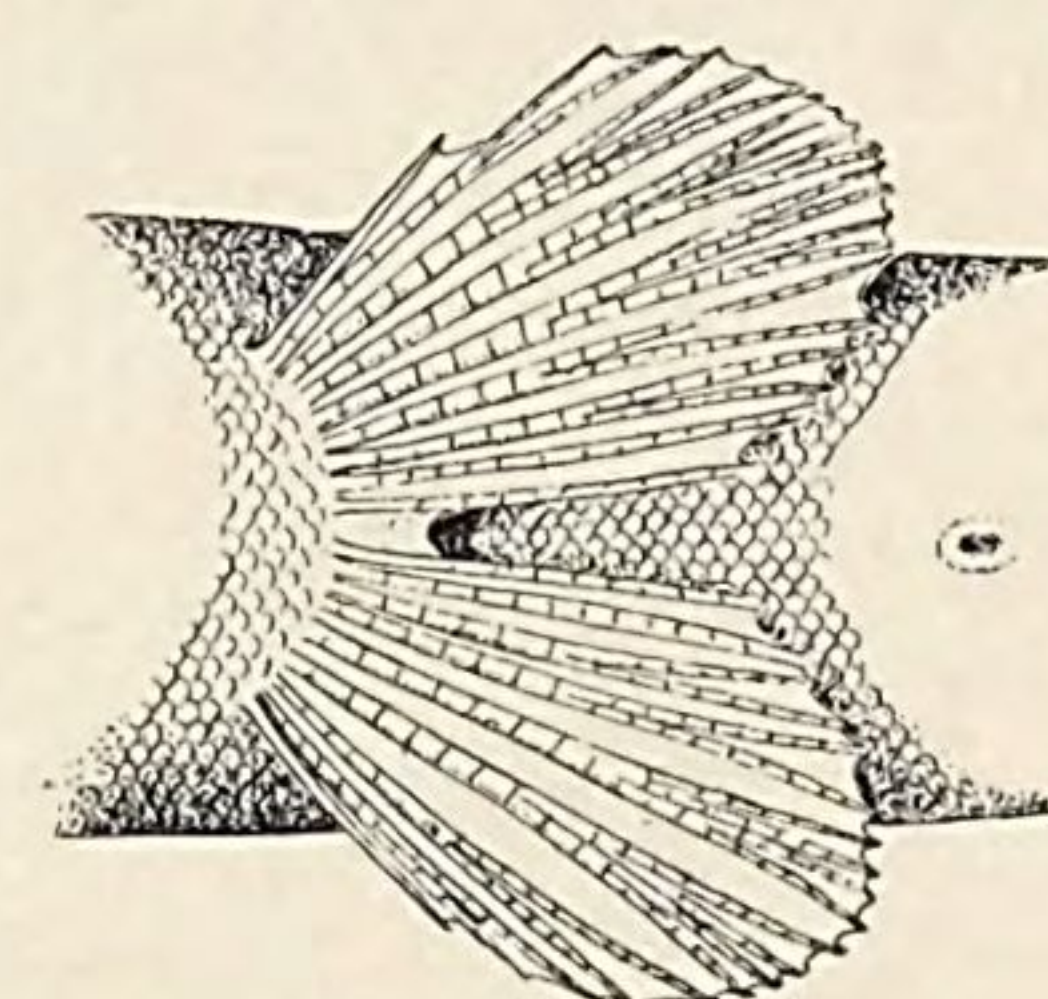
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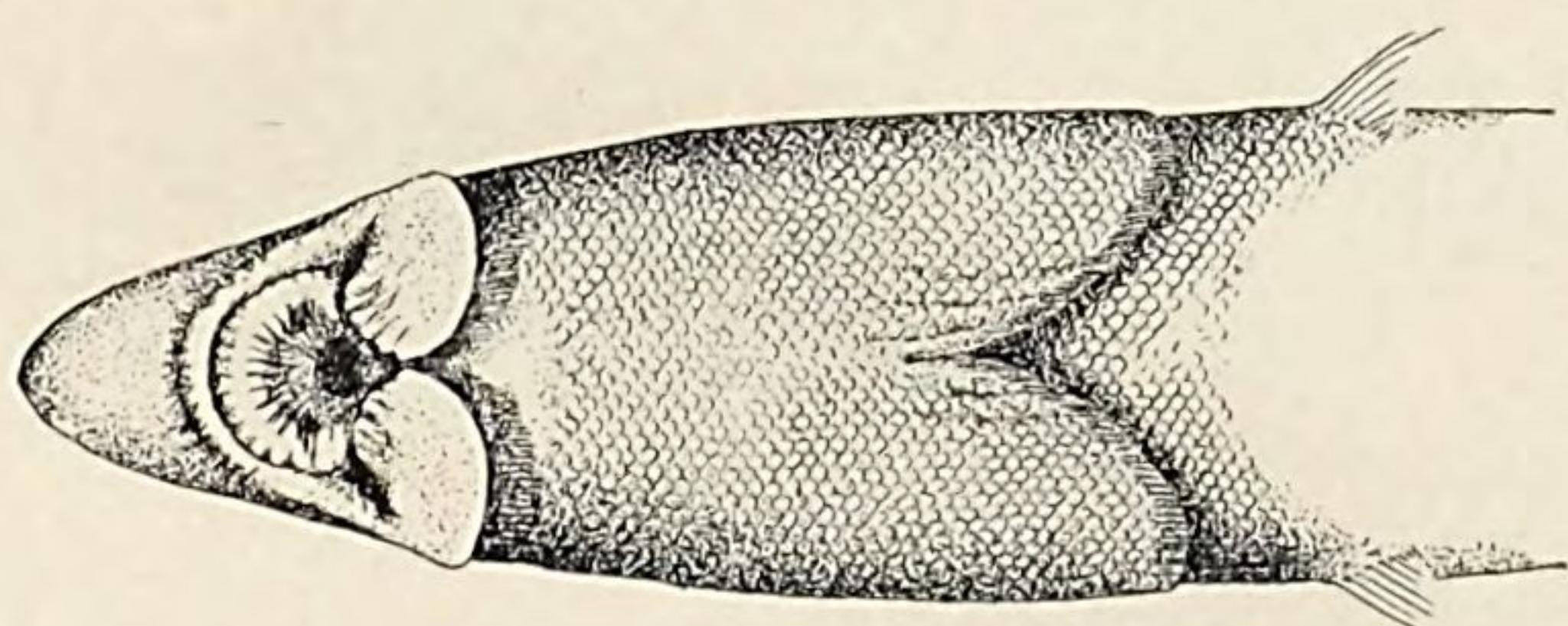
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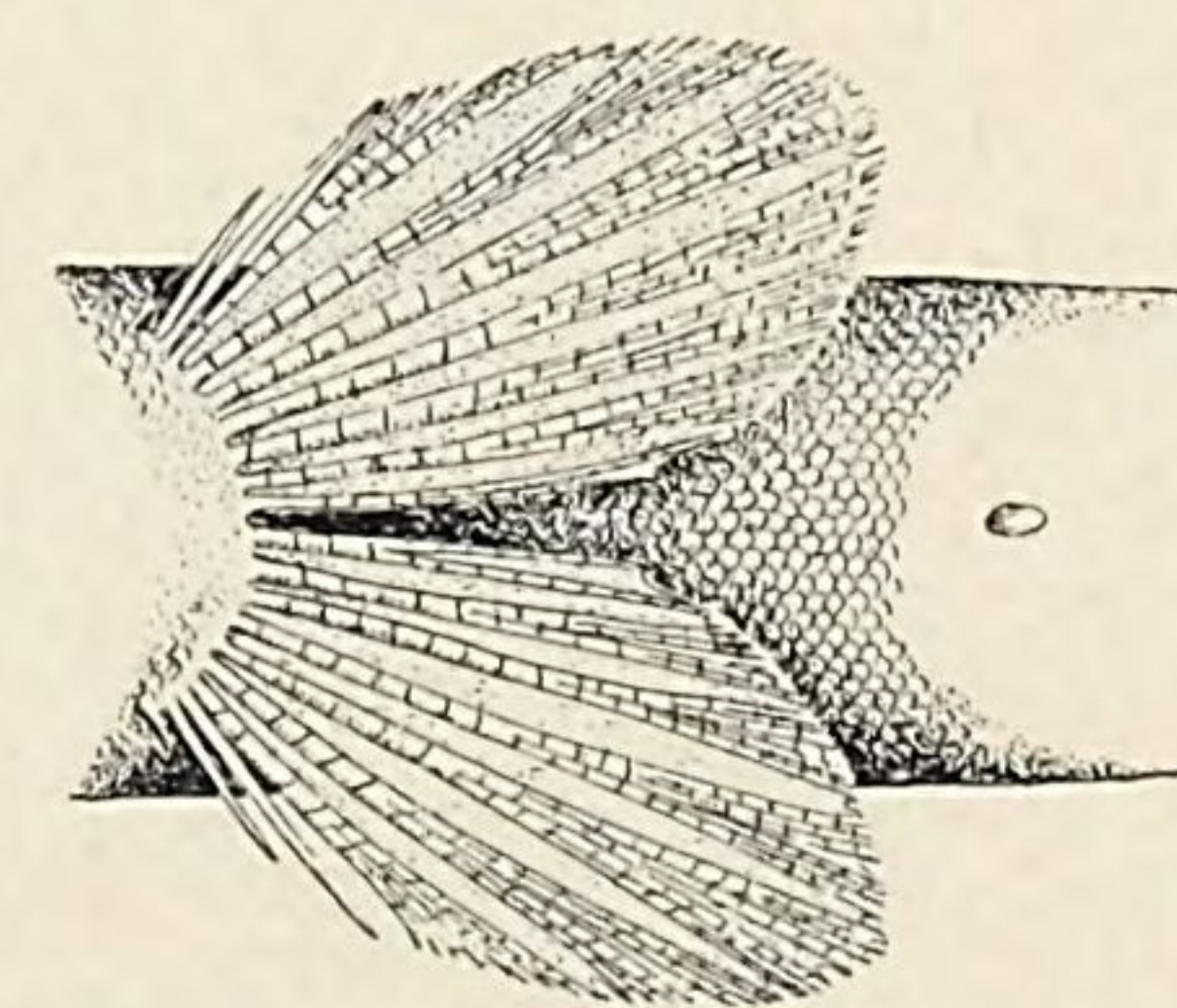
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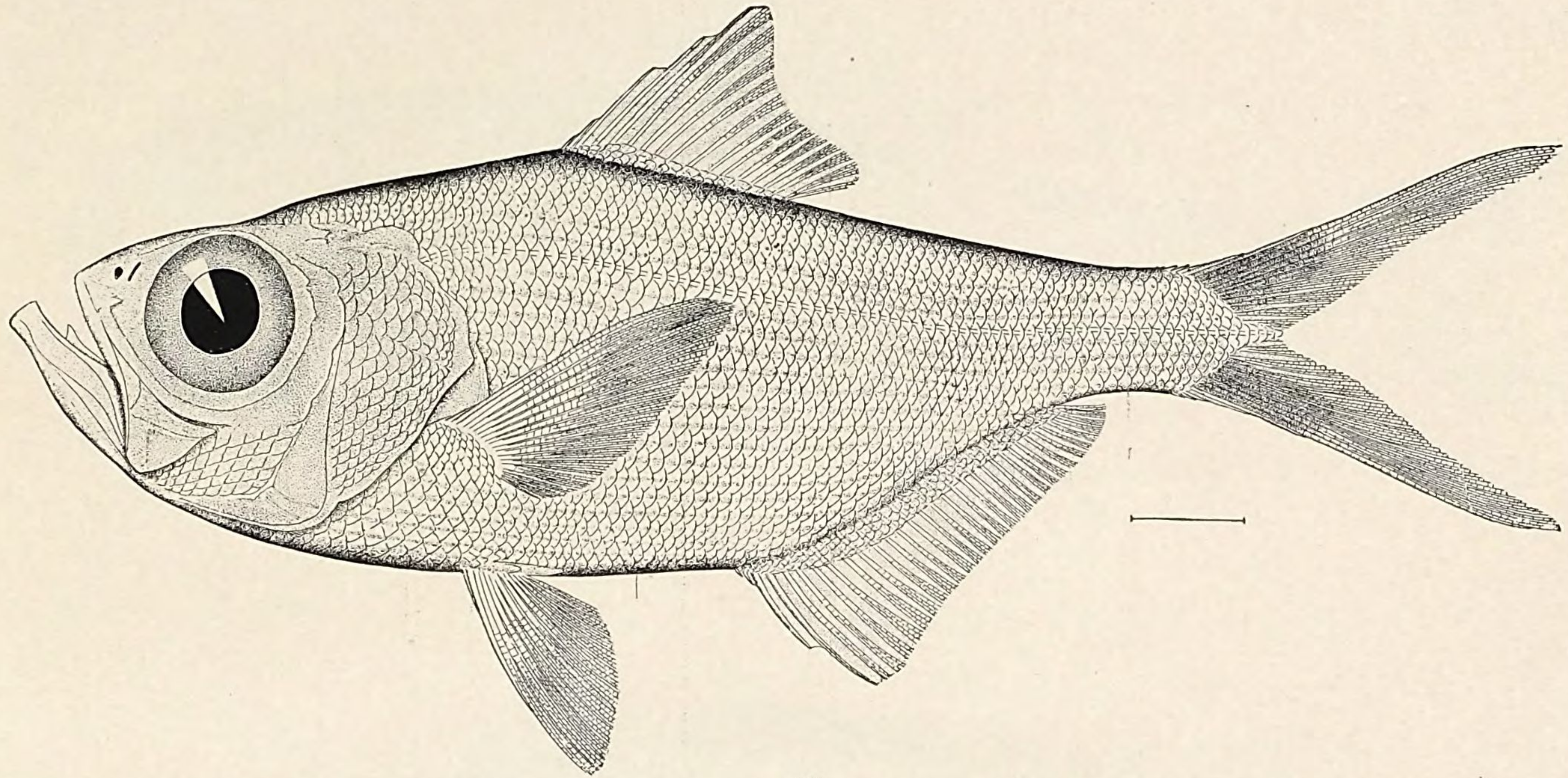
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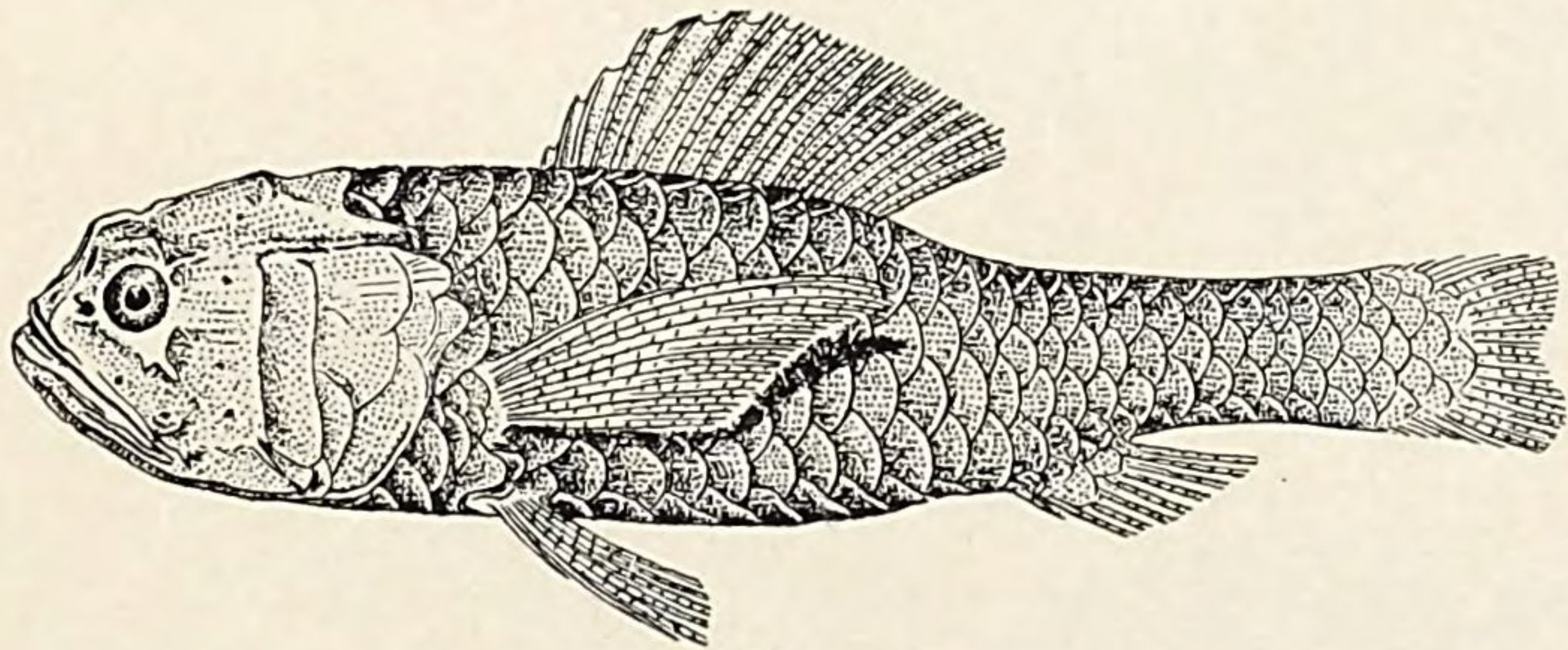
196b.

191a, b. NOTACANTHUS ANALIS. (p. 165.)
193. GIGLIOLIA MOSELEYI. (p. 169.)
195a, b. MACDONALDIA ROSTRATA. (p. 171.)

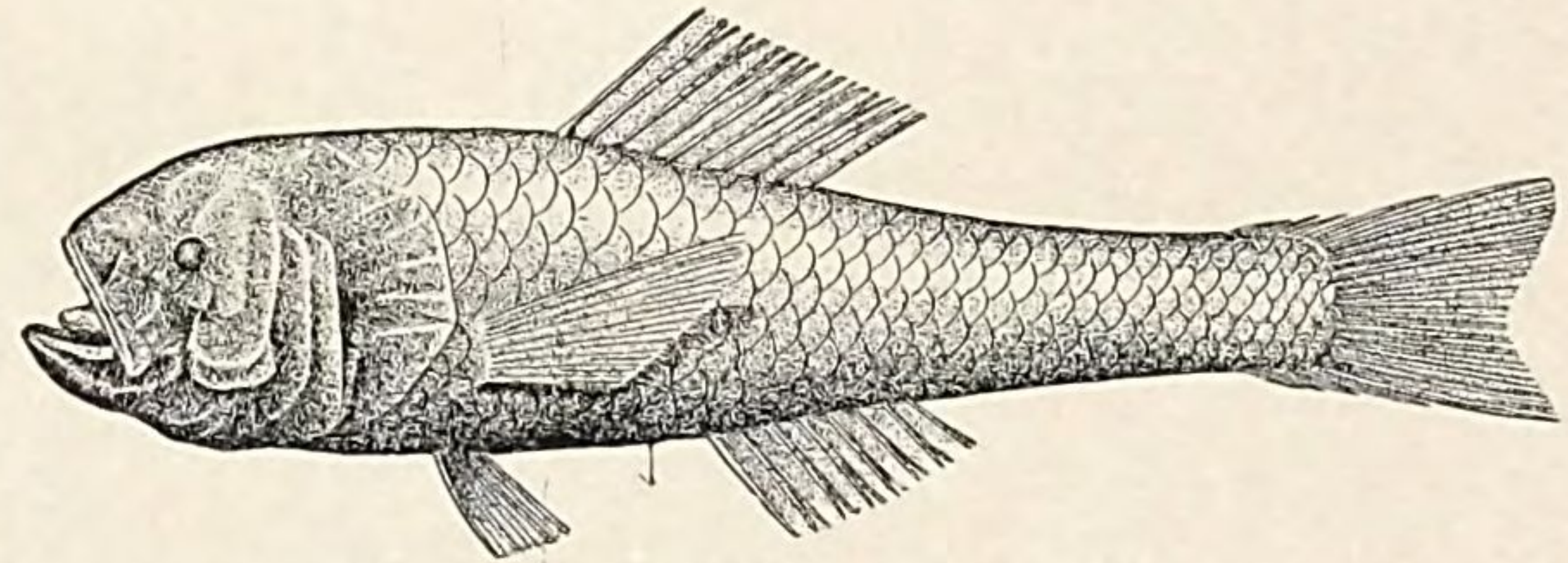
192a, b. NOTACANTHUS SEXSPINIS. (p. 163.)
194a, b. POLYACANTHONOTUS RISSOANUS. (p. 170.)
196a, b. LIOGENYS GILLII. (p. 173.)



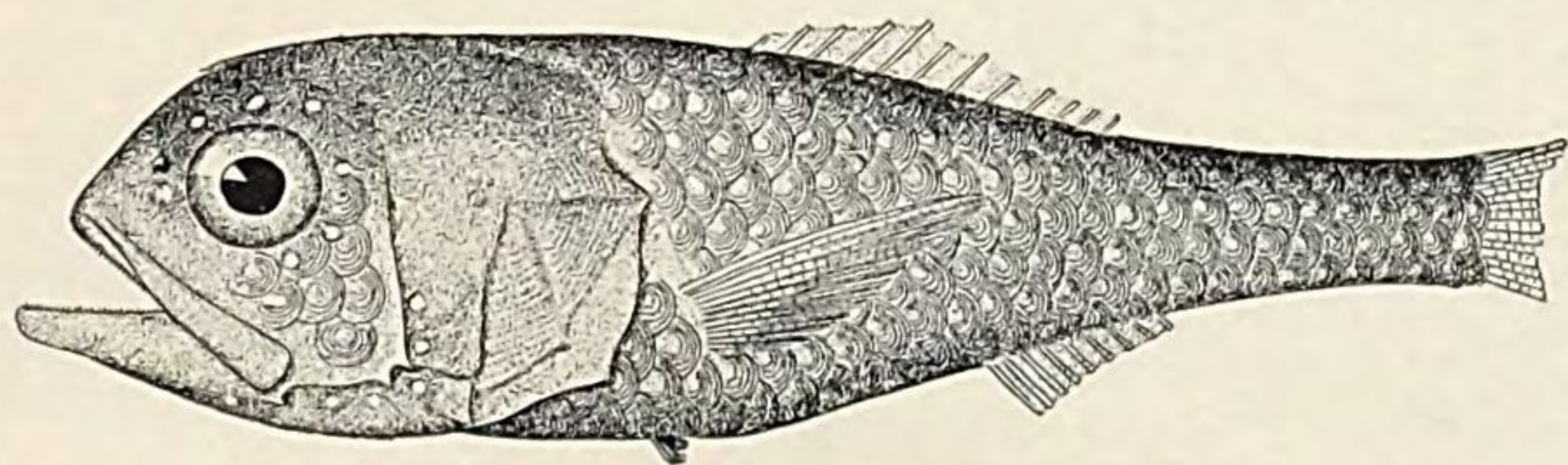
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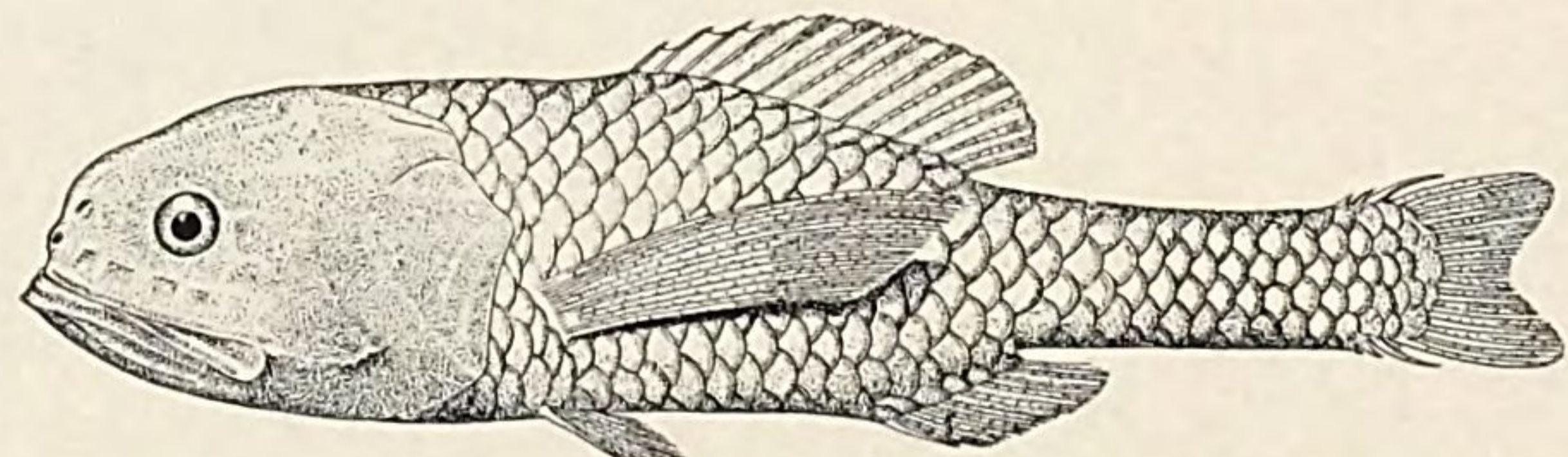
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200a

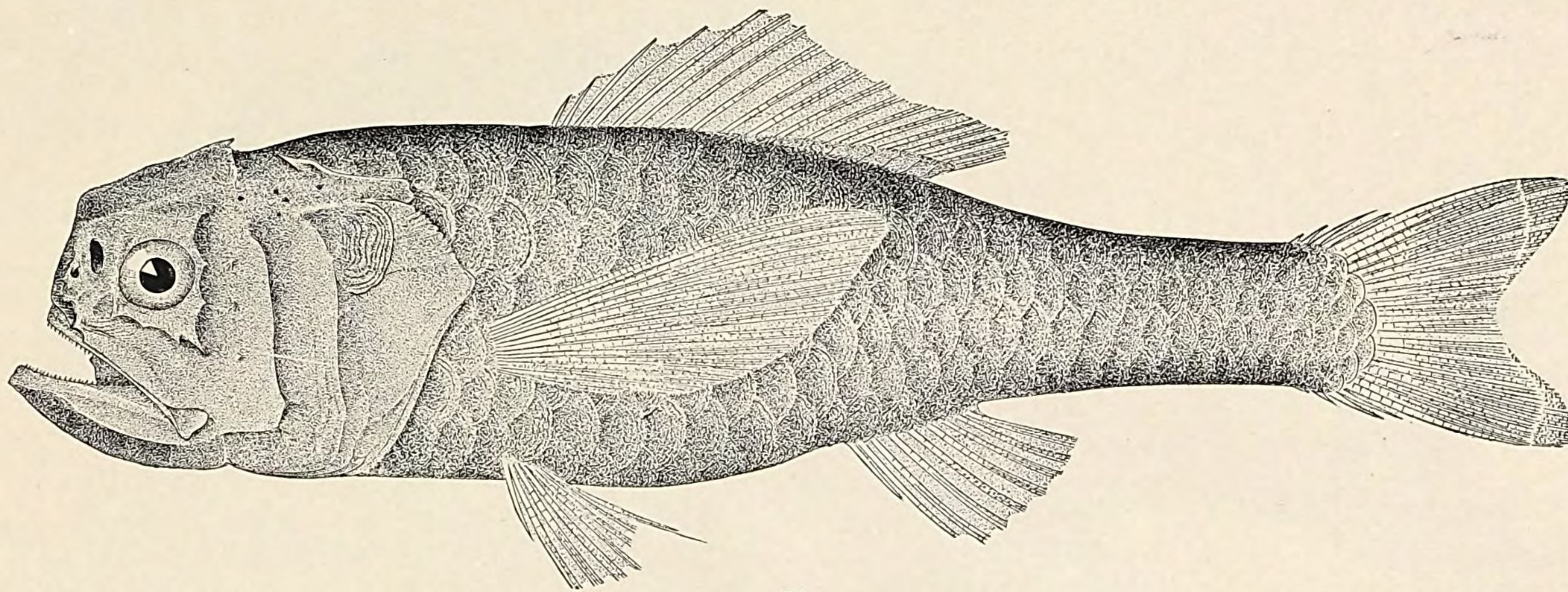
197. BERYX SPLENDENS. (p. 176.)

199. SCOPELOGADUS COCLES. (p. 182.)

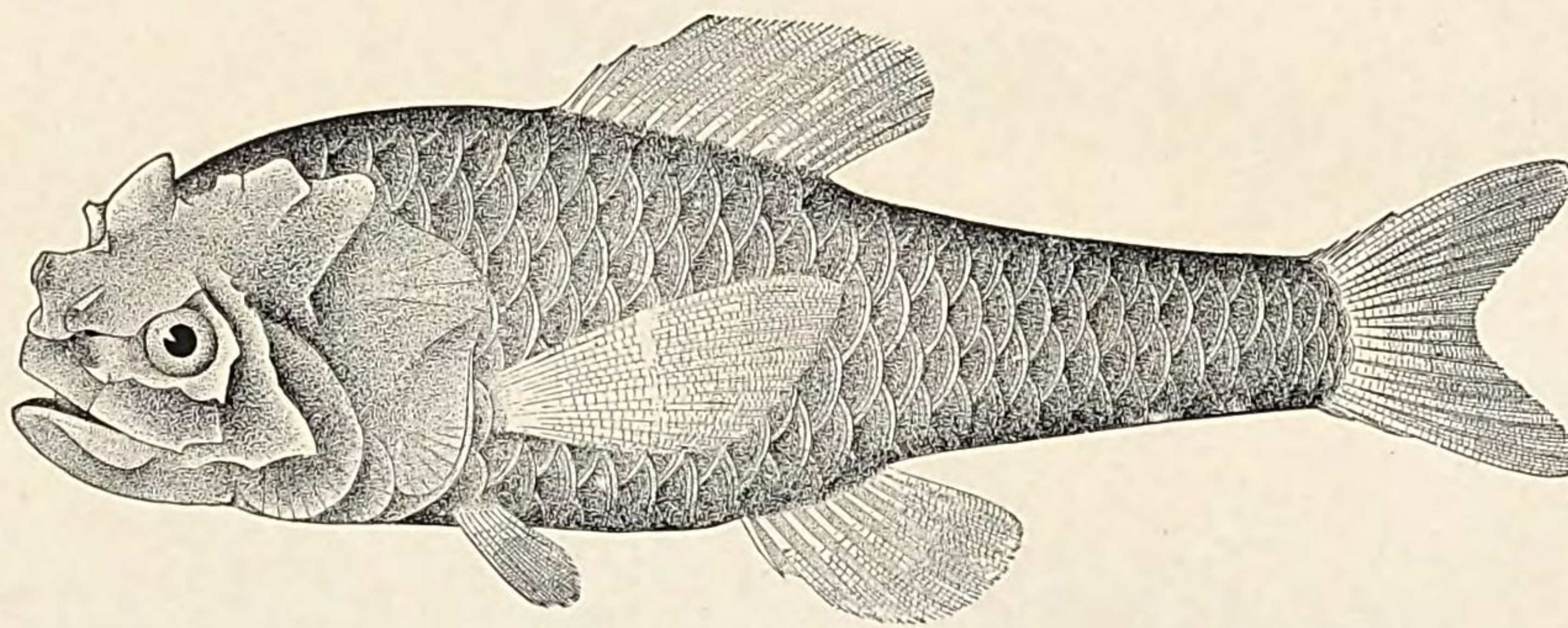
200a. PLECTROMUS CRASSICEPS. (p. 180.)

198. MELAMPHÆUS TYPHLOPS. (p. 177.)

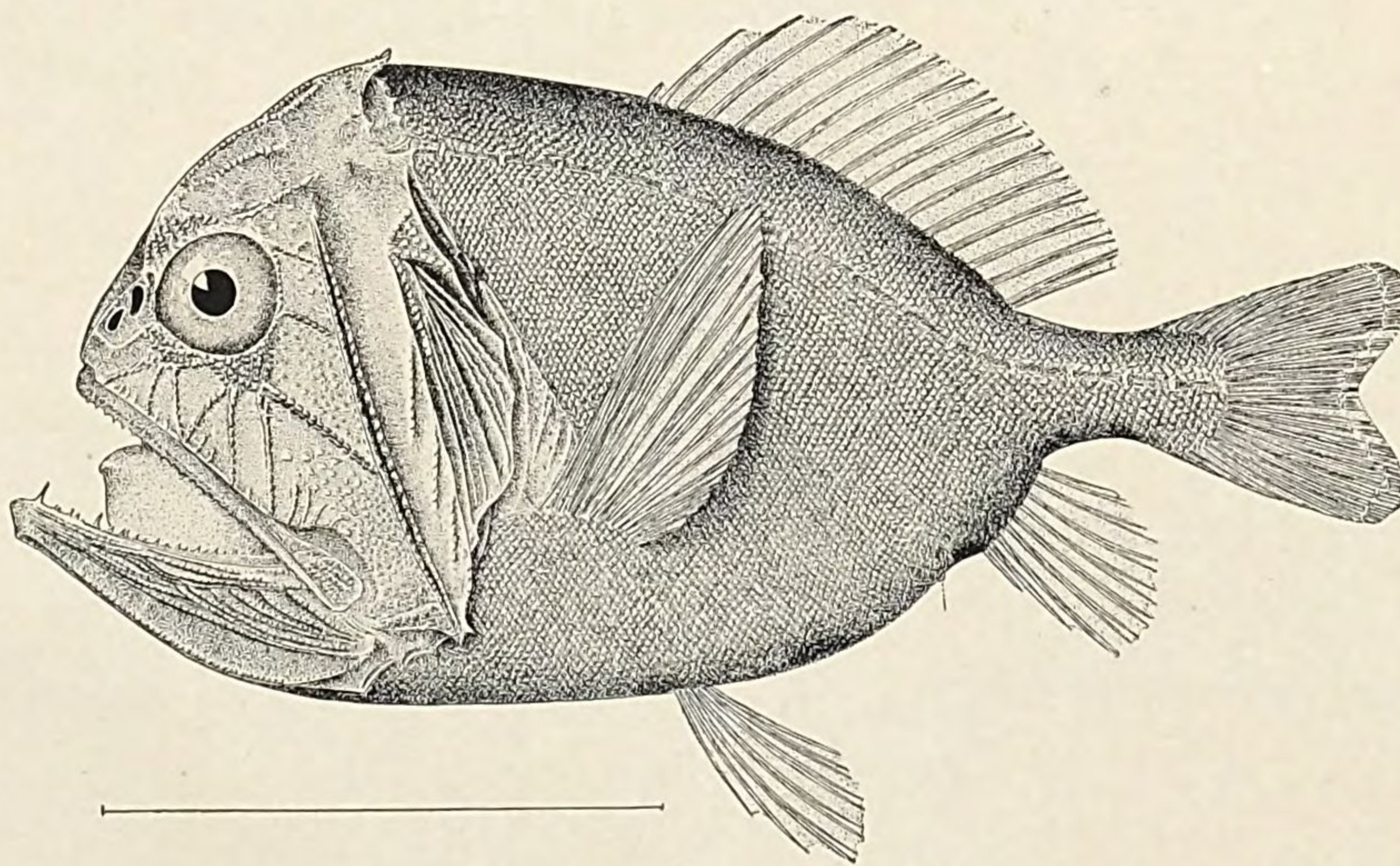
200. POROMITRA CAPITO. (p. 183.)



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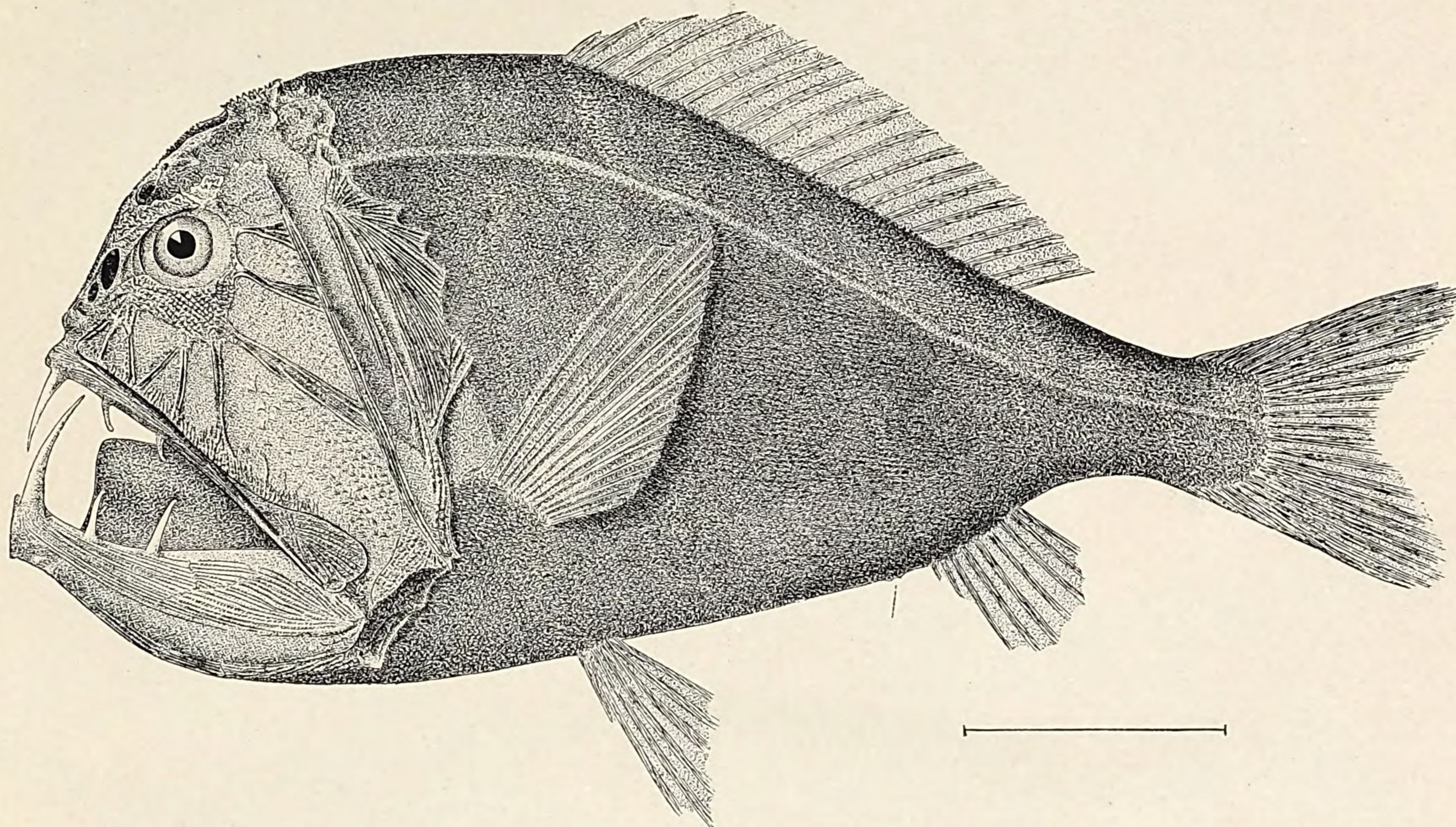


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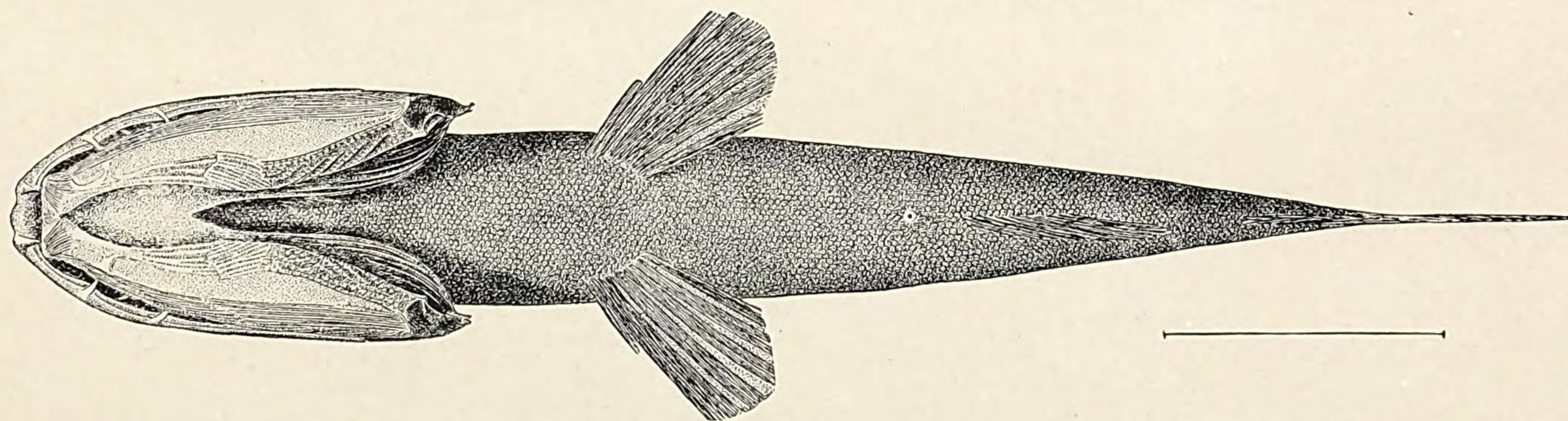
201. PLECTROMUS SUBORBITALIS. (p. 179.)

202. PLECTROMUS BEANII. (p. 179.)

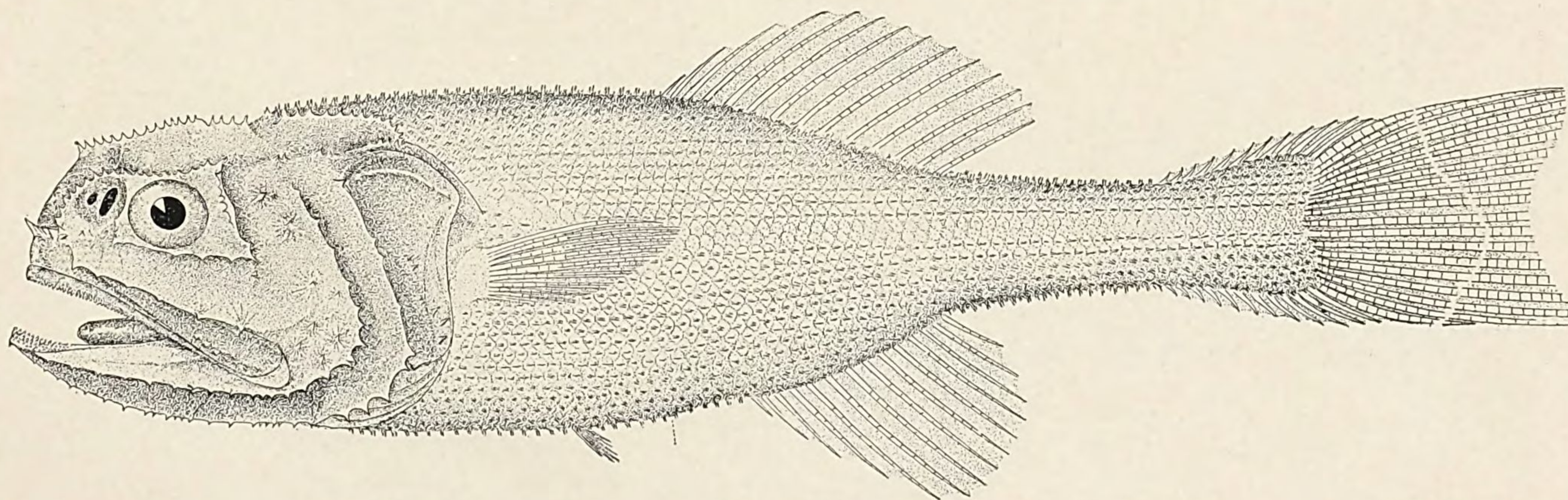
203. ANOPILOGASTER CORNUTUS. (p. 184.)



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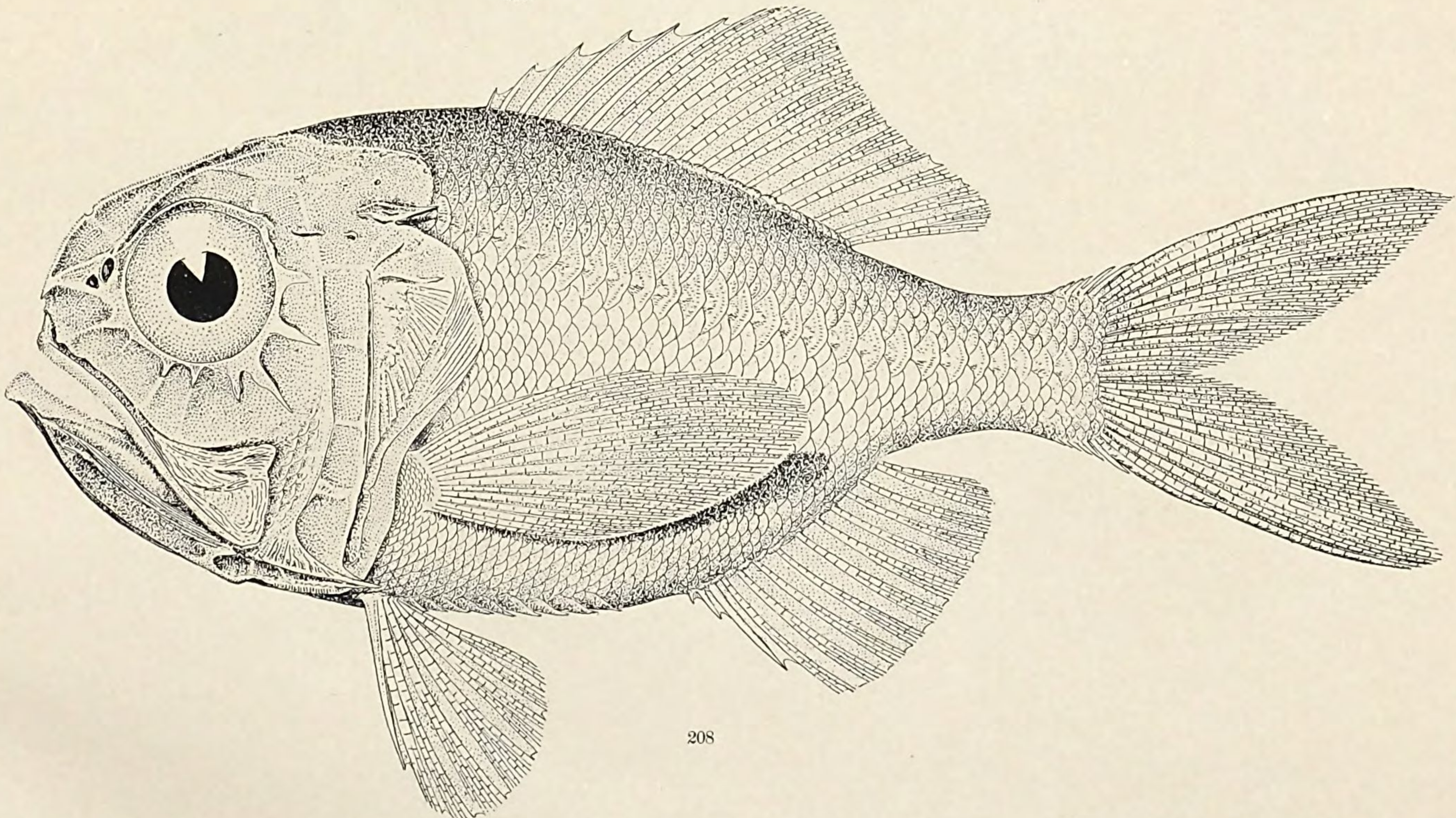
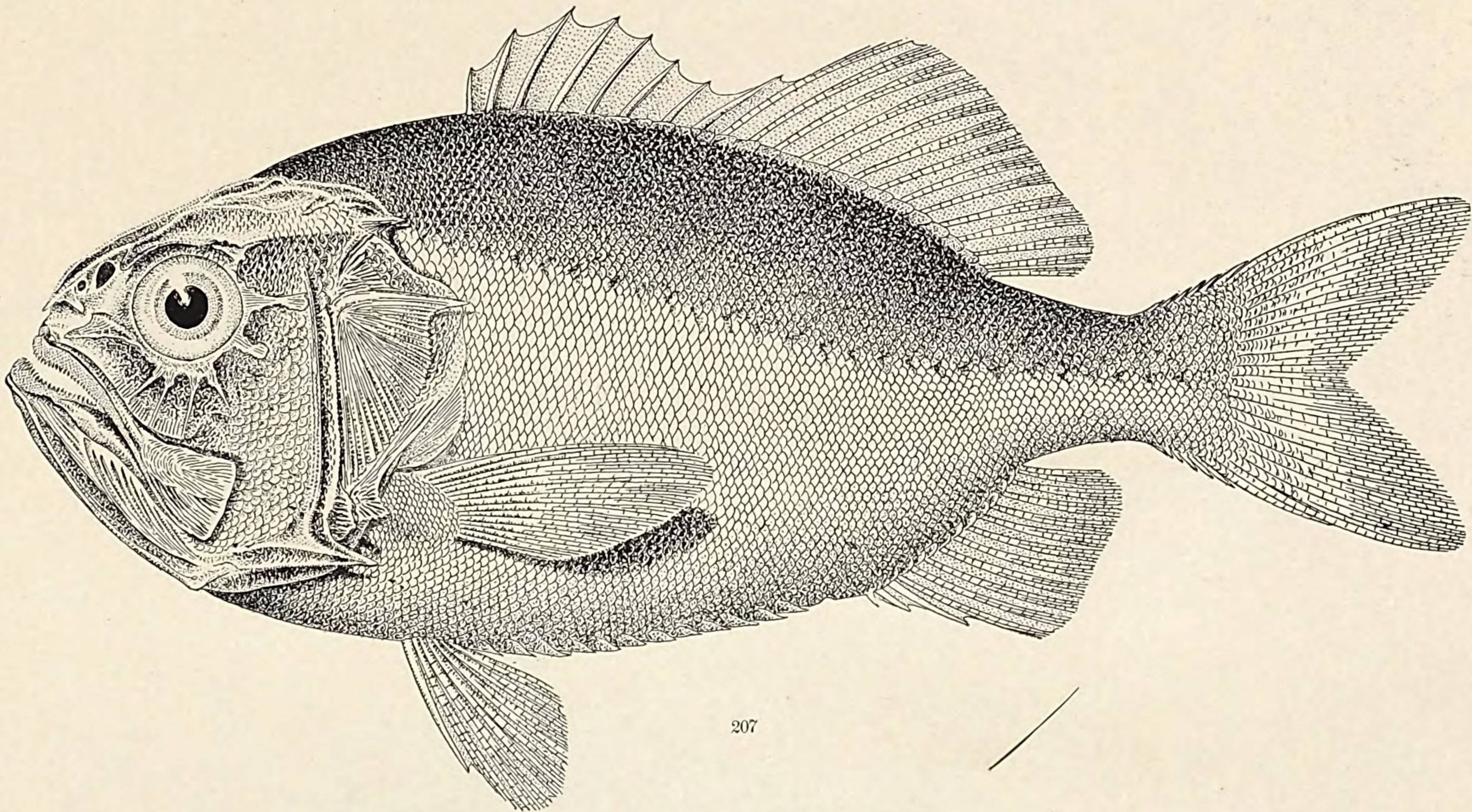
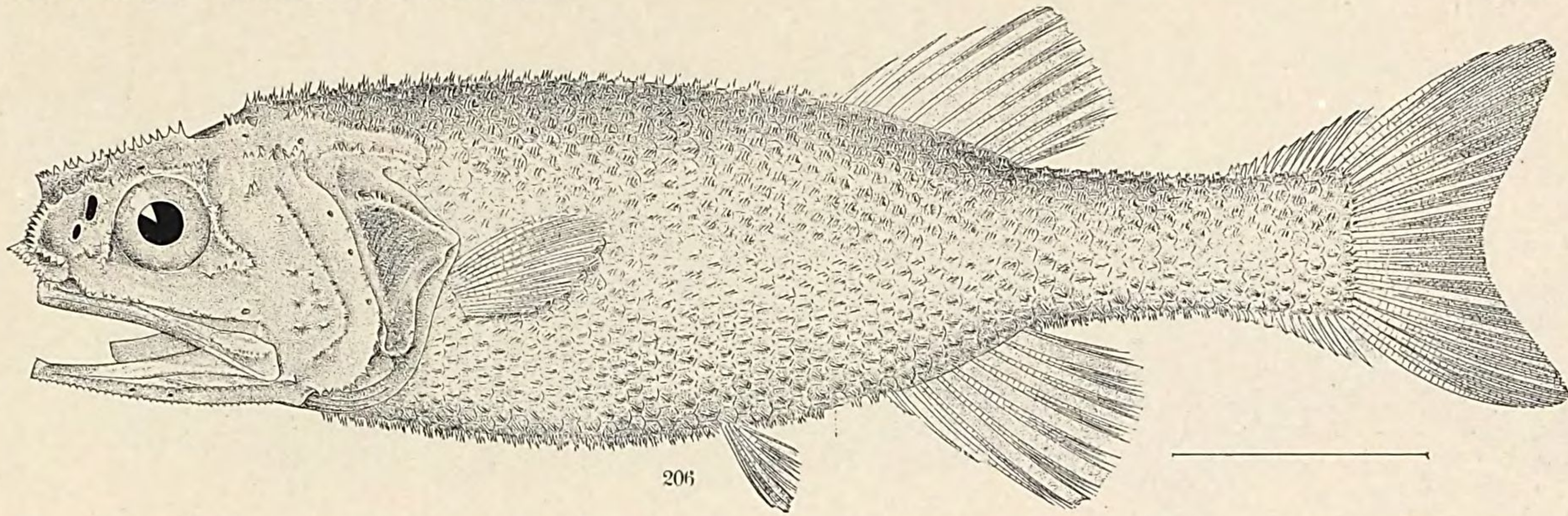
204a



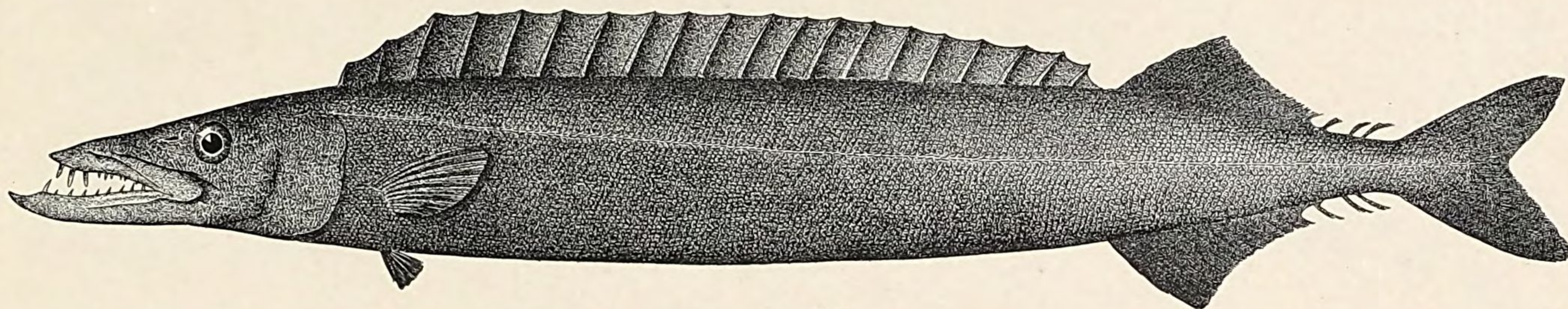
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204, 204a. CAULOLEPIS LONGIDENS. (p. 185.)

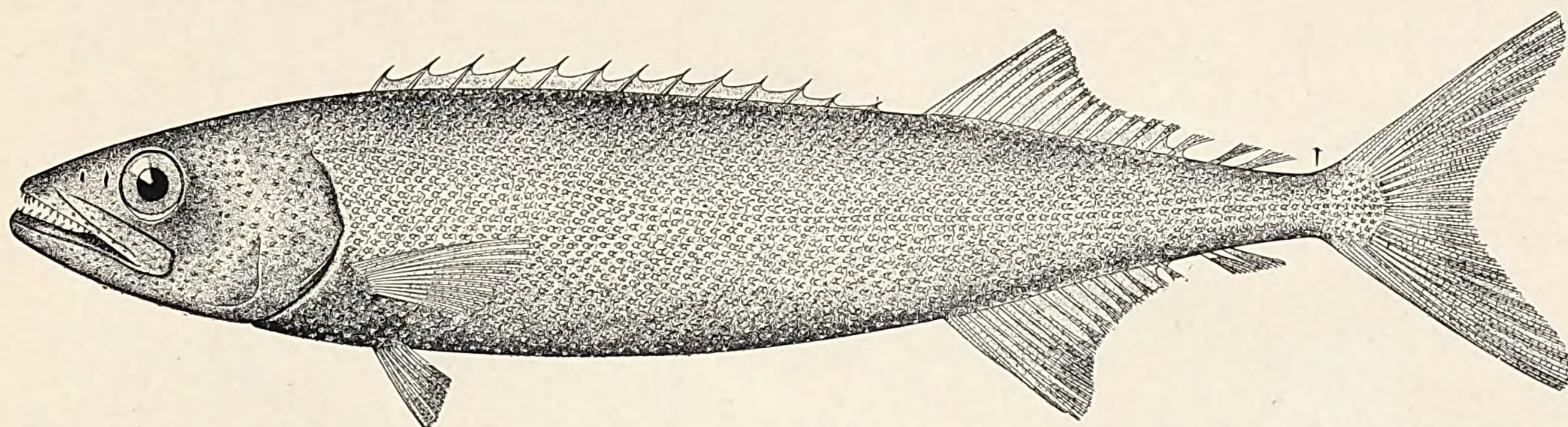
205. STEPHANOBERYX MONÆ. (p. 186.)



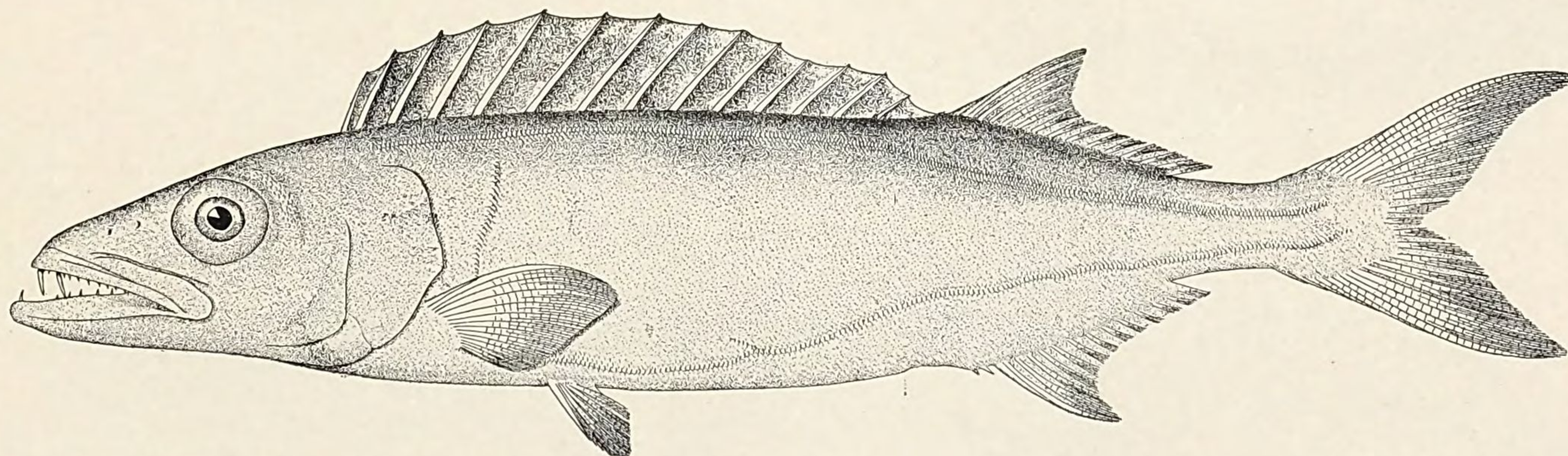
206. STEPHANOBERYX GILLII. (p. 187.) 207. TRACHICHTHYS DARWINII. (p. 188.)
208. HOPLOSTETHUS MEDITERRANEUS. (p. 189.)



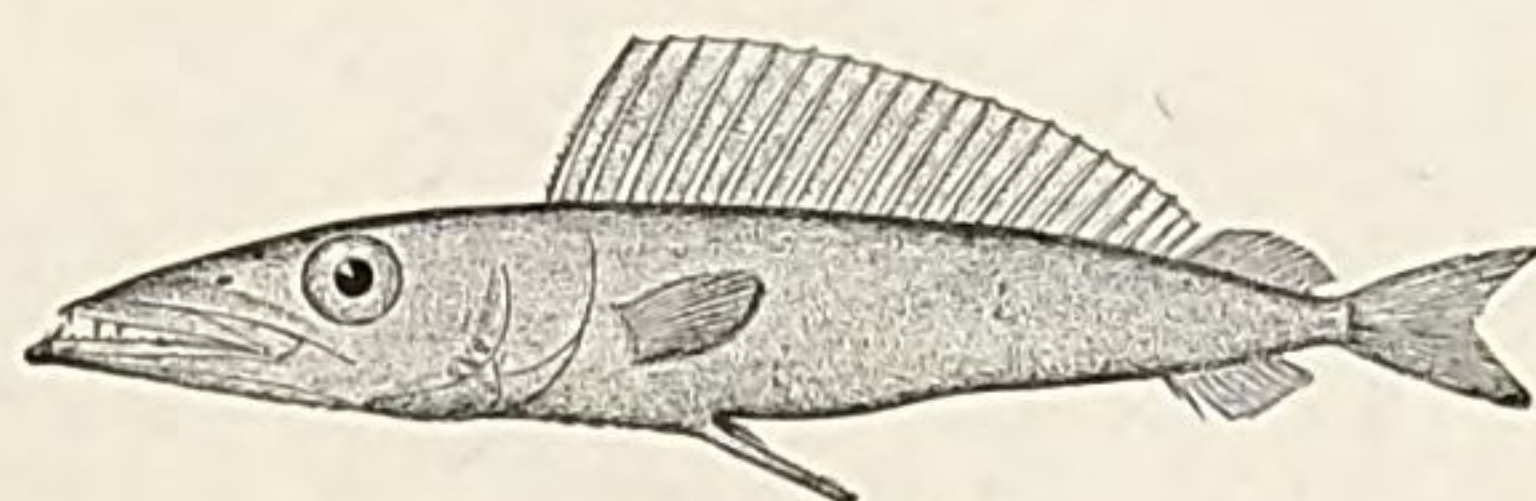
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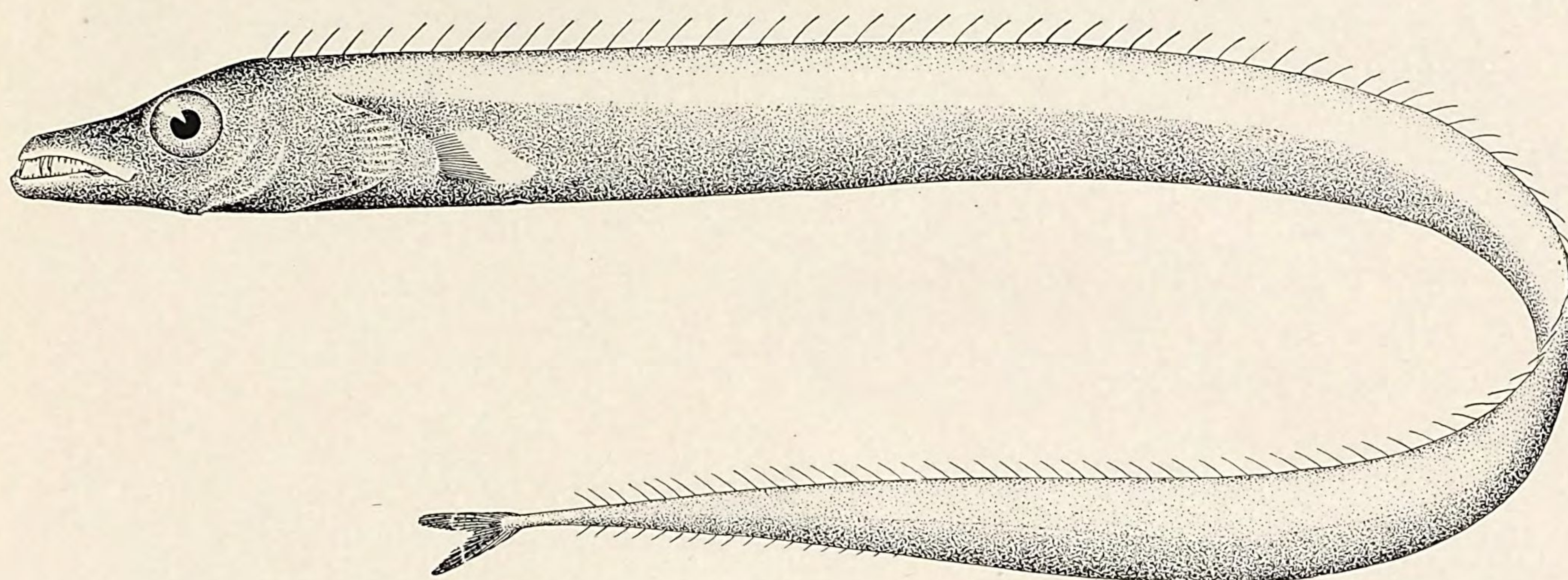
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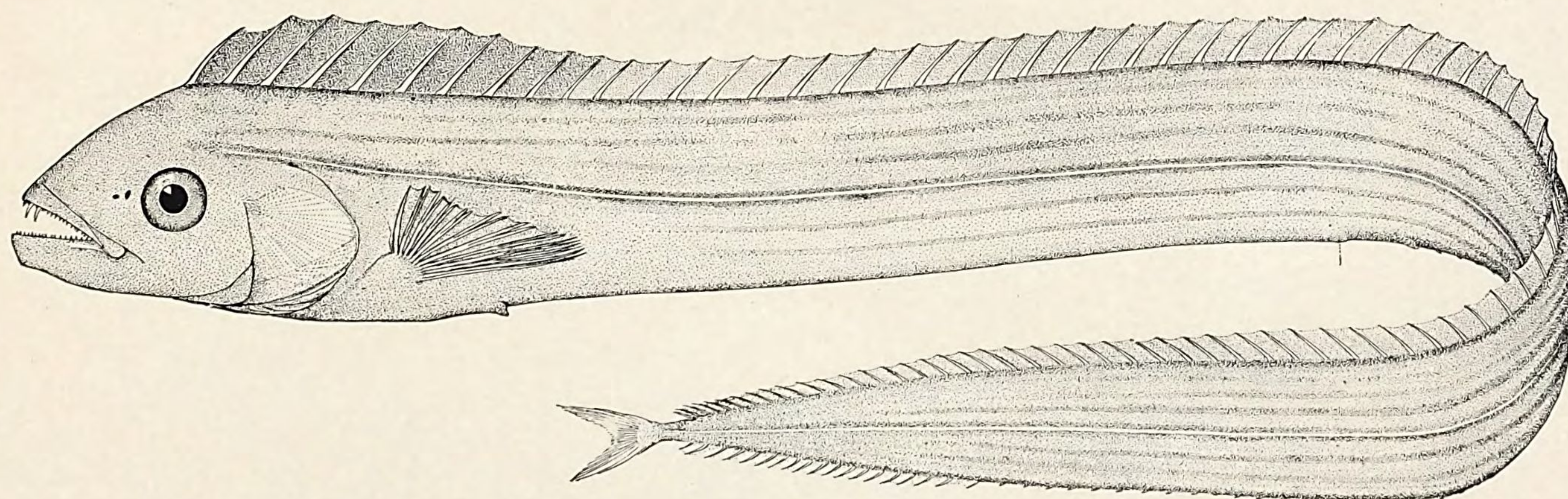
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209. THYRSITOPS VIOLACEUS. (p. 195.)
211. EPINNULA MAGISTRALIS. (p. 198.)

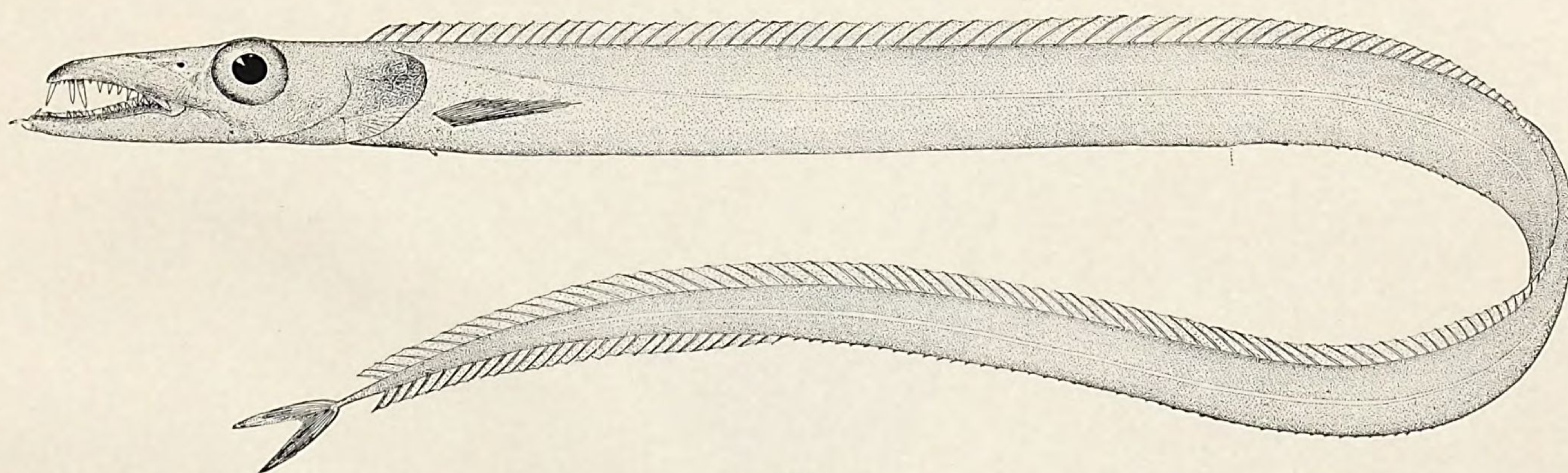
210. RUVETTUS PRETIOSUS. (p. 196.)
212. DICROTUS PARVIPINNIS. (p. 201.)



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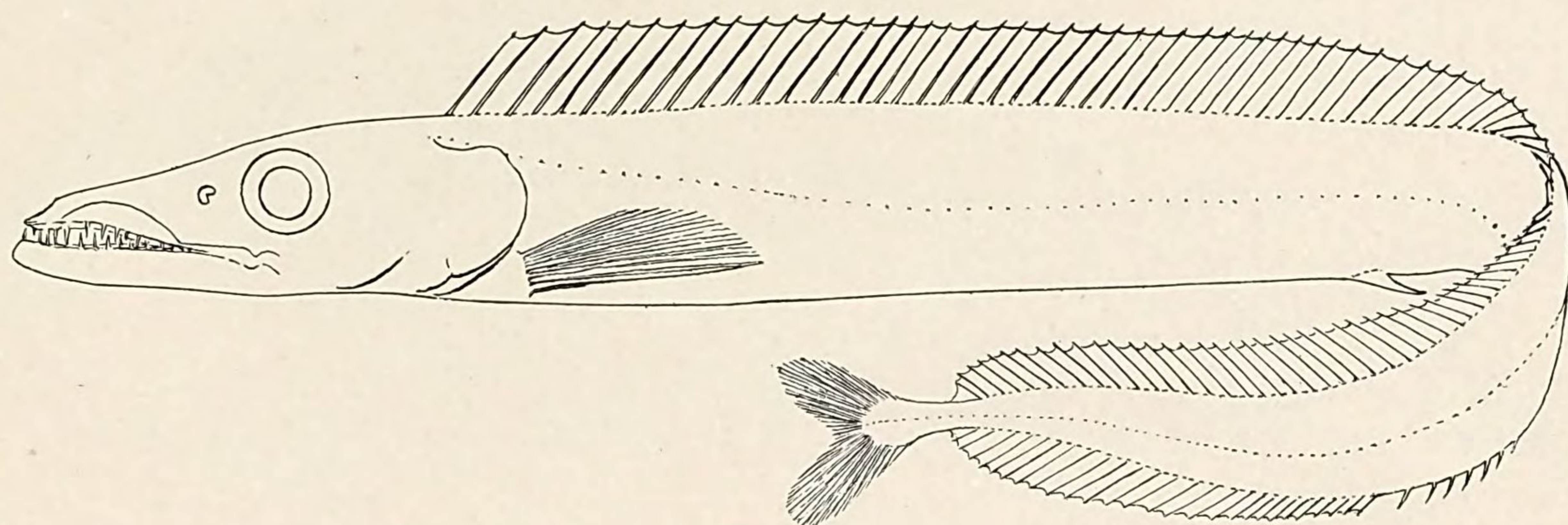


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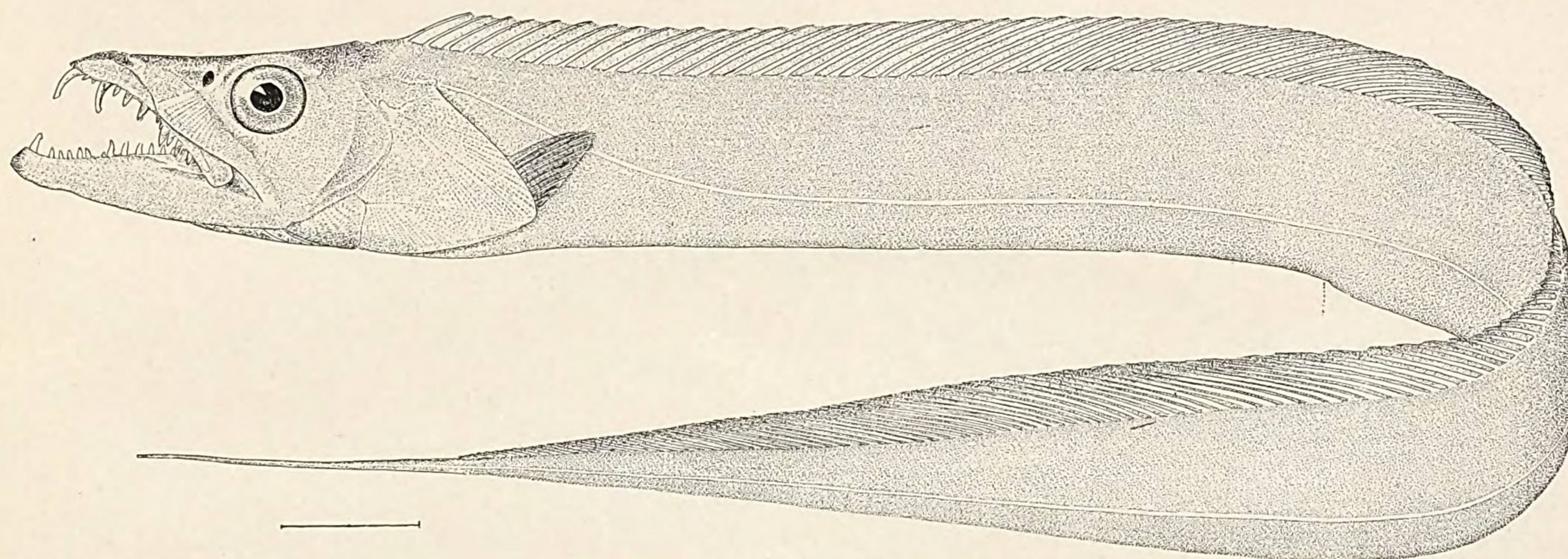
213. *LEPIDOPUS CAUDATUS*. (p. 203.)

214. *EVOXYMETOPON TÆNIATUS*. (p. 204.)

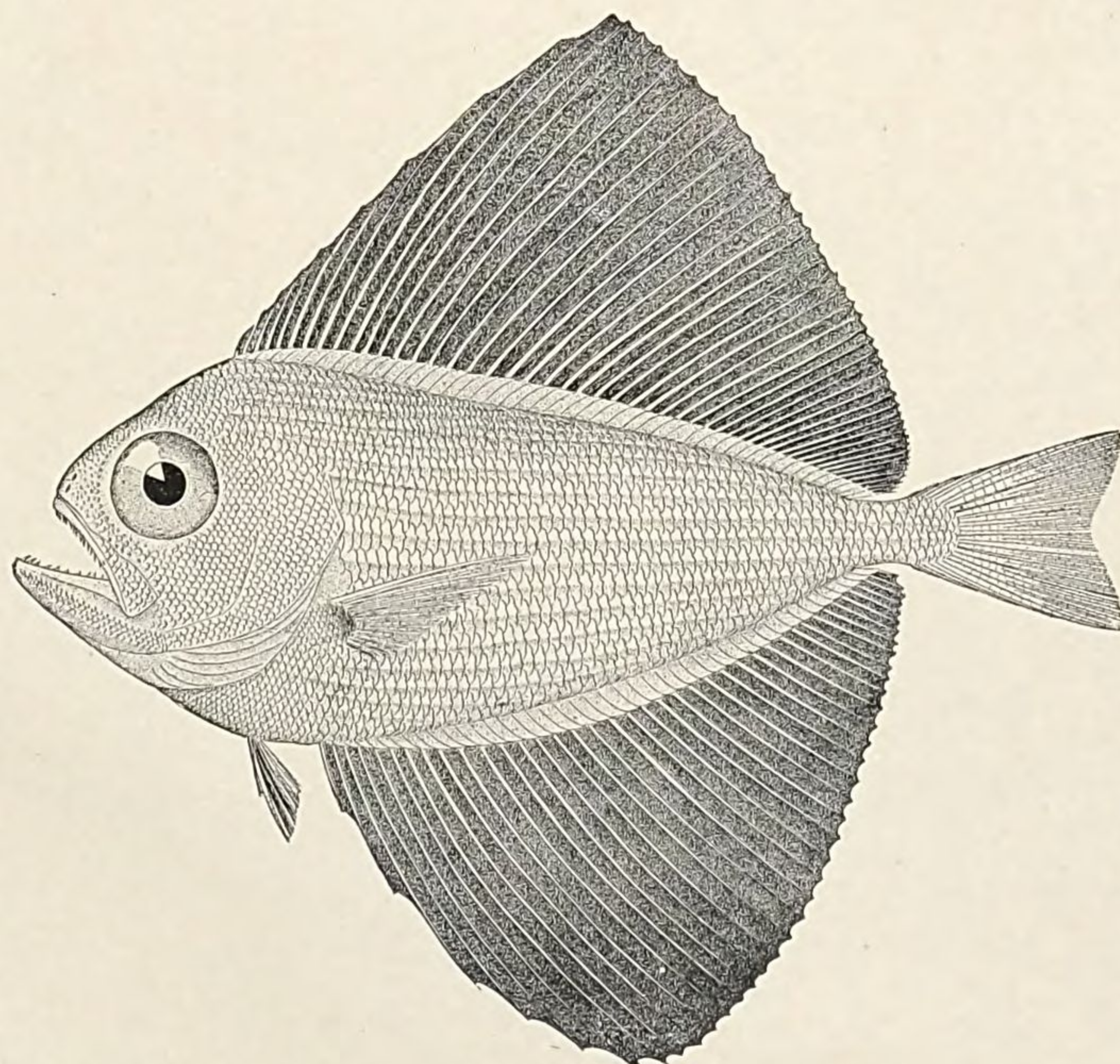
215. *BENTHODESMUS ATLANTICUS*. (p. 205.)



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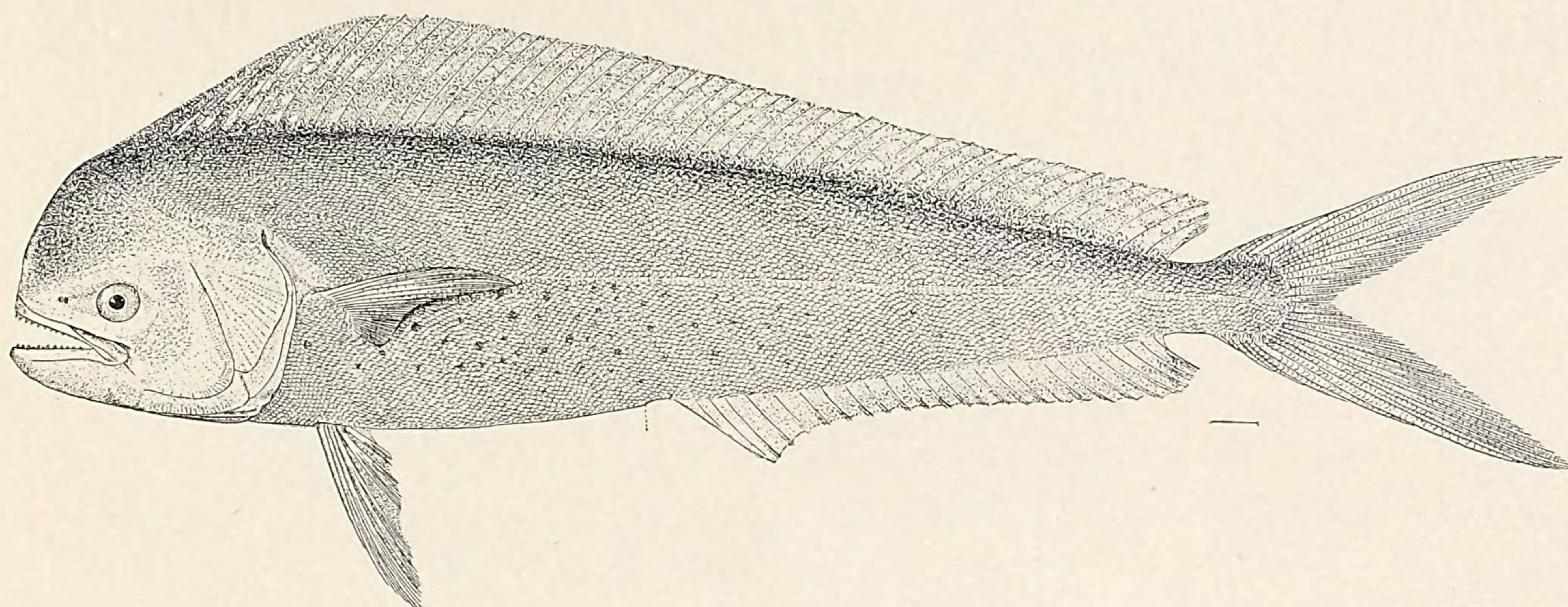


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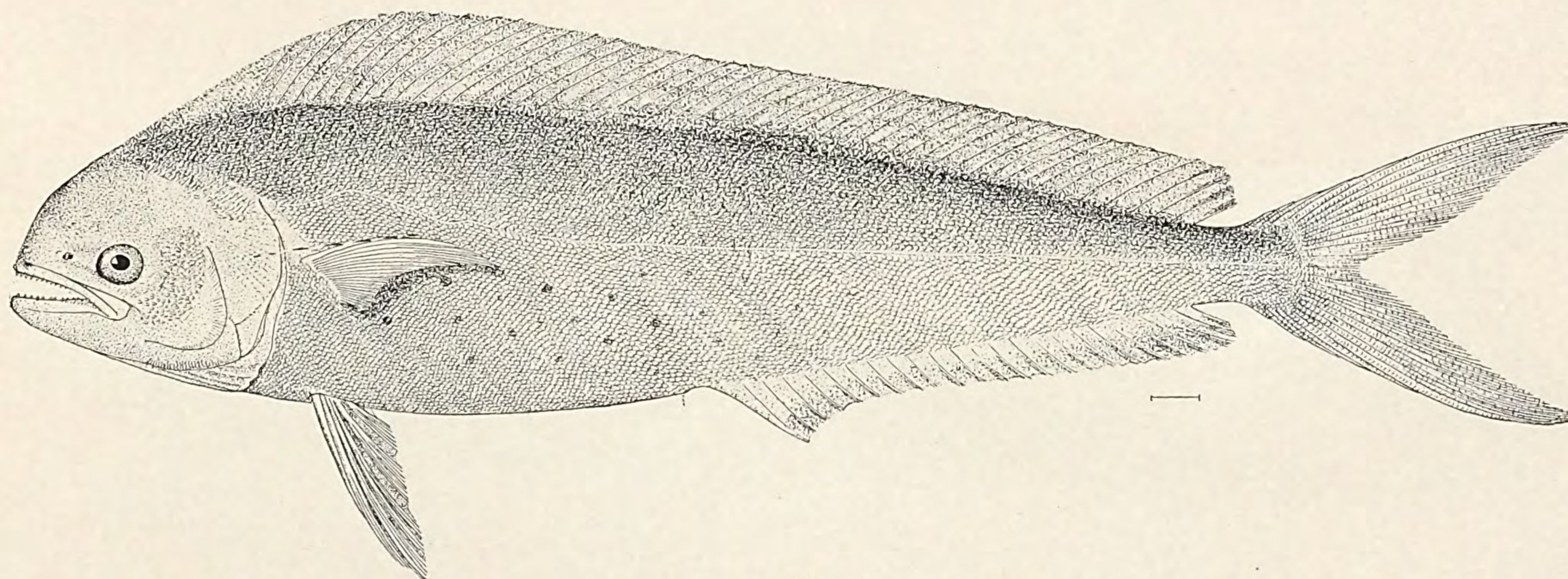
216. APHANOPUS CARBO. (p. 207.)

217. TRICHIURUS LEPTURUS. (p. 208.)

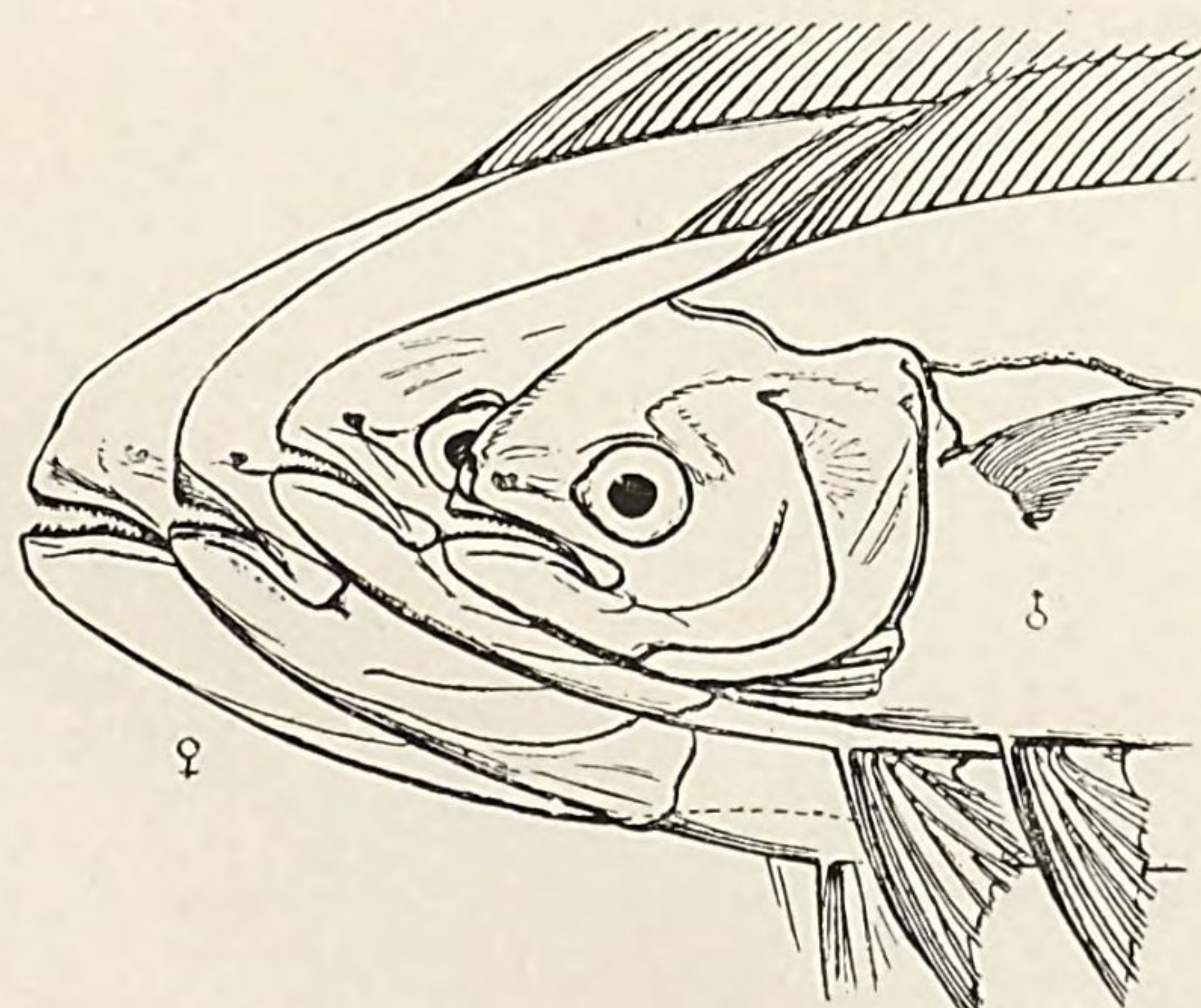
218. PTERACLIS CAROLINUS. (p. 212.)



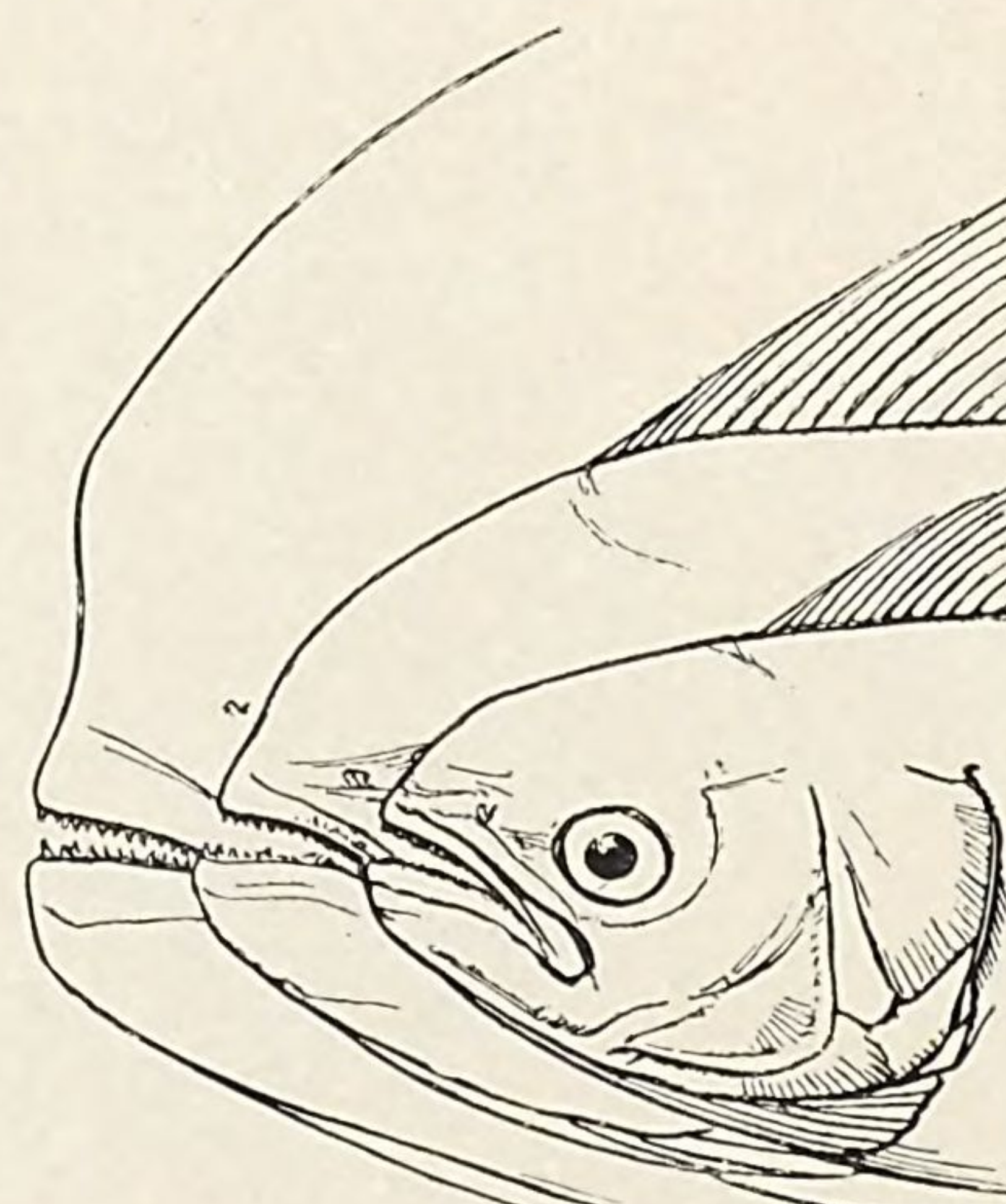
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220a

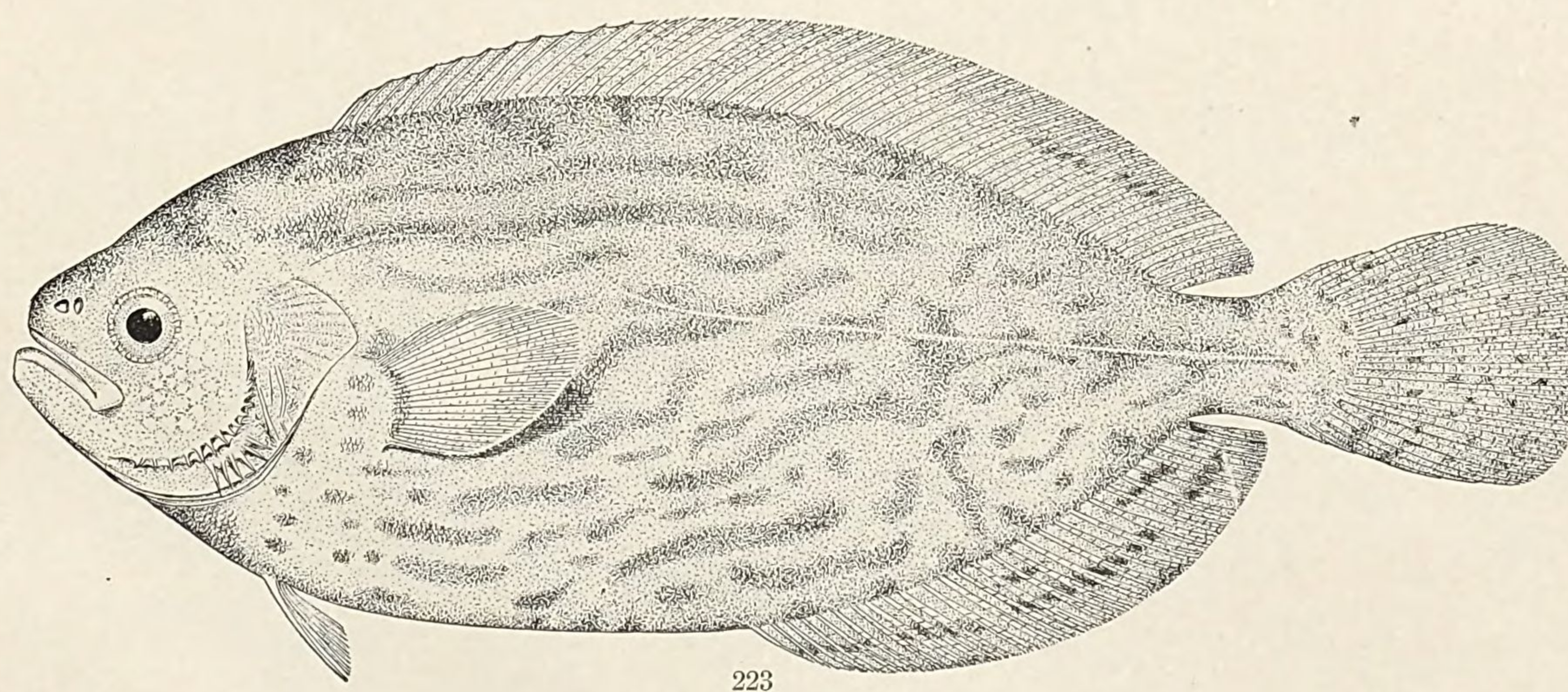
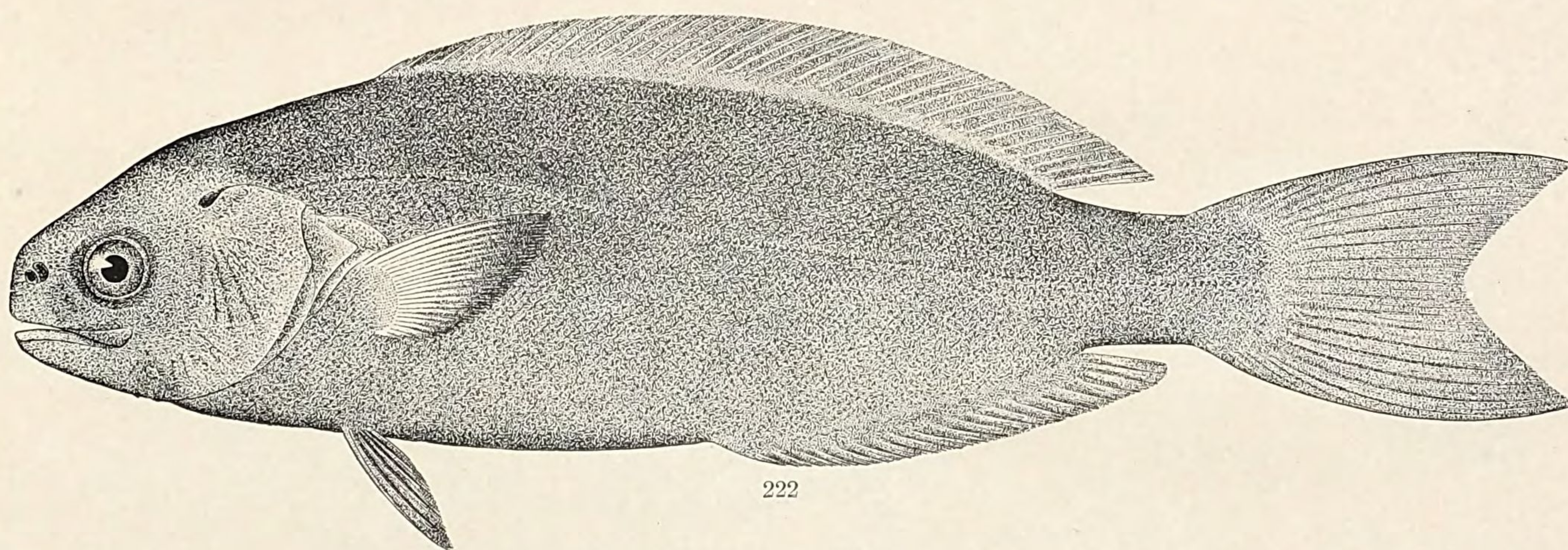
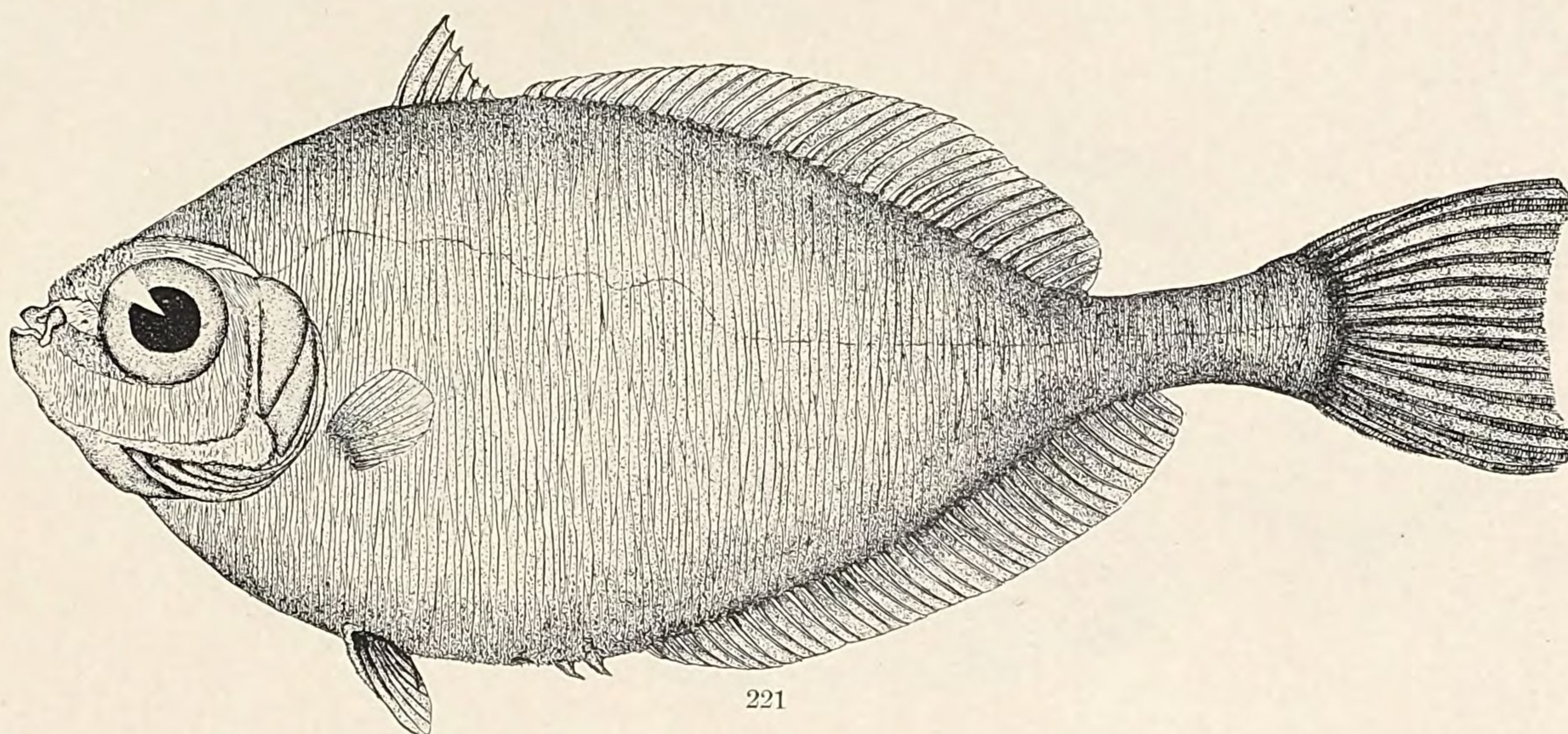


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219. CORYPHÆNA HIPPURUS (old male). (p. 209.)

220. CORYPHÆNA HIPPURUS (young). (p. 209.)

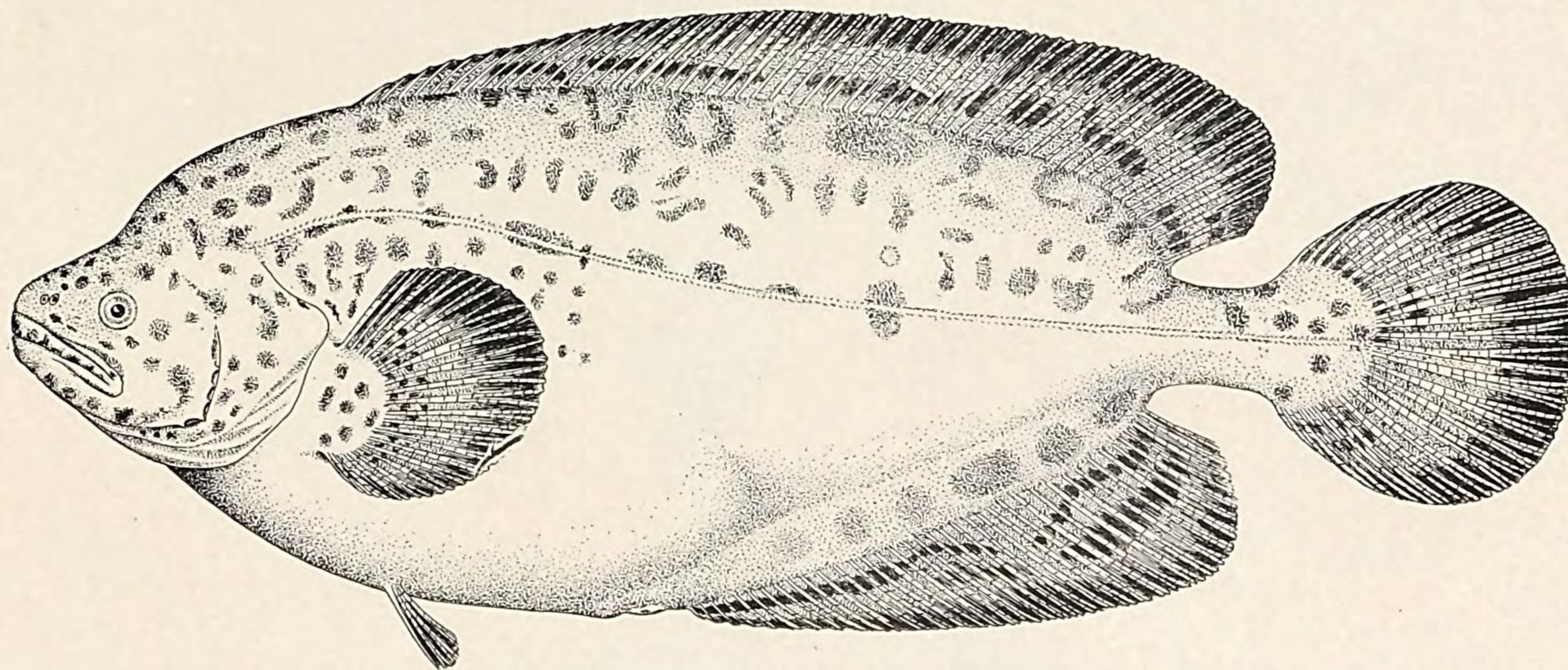
220a, b. CORYPHÆNA HIPPURUS. (p. 209.)



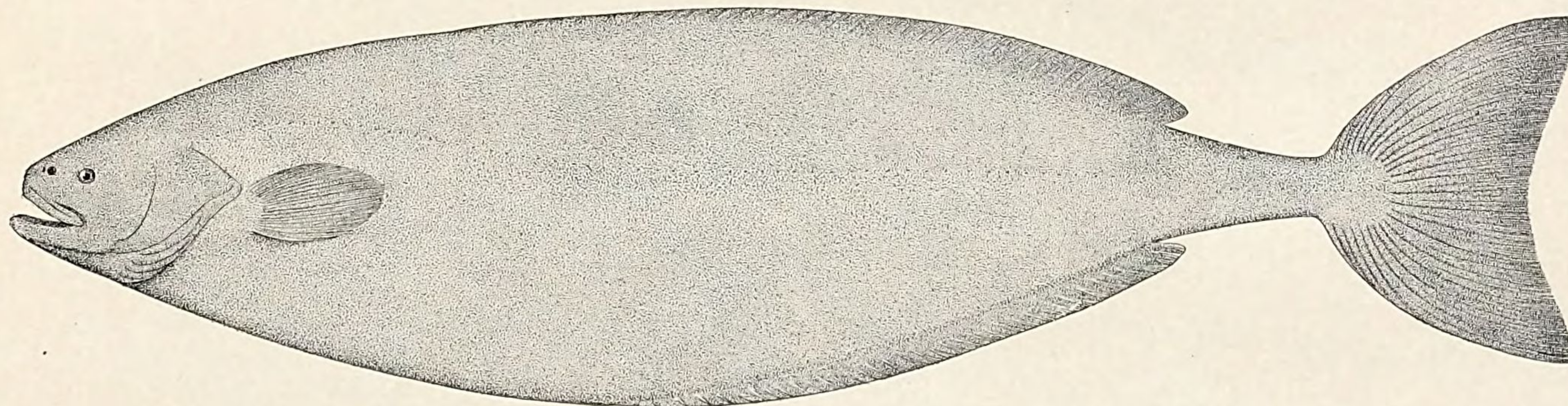
221. GRAMMICOLEPIS BRACHIUSCULUS. (p. 218.)

222. CENTROLOPHUS POMPILUS. (p. 214.)

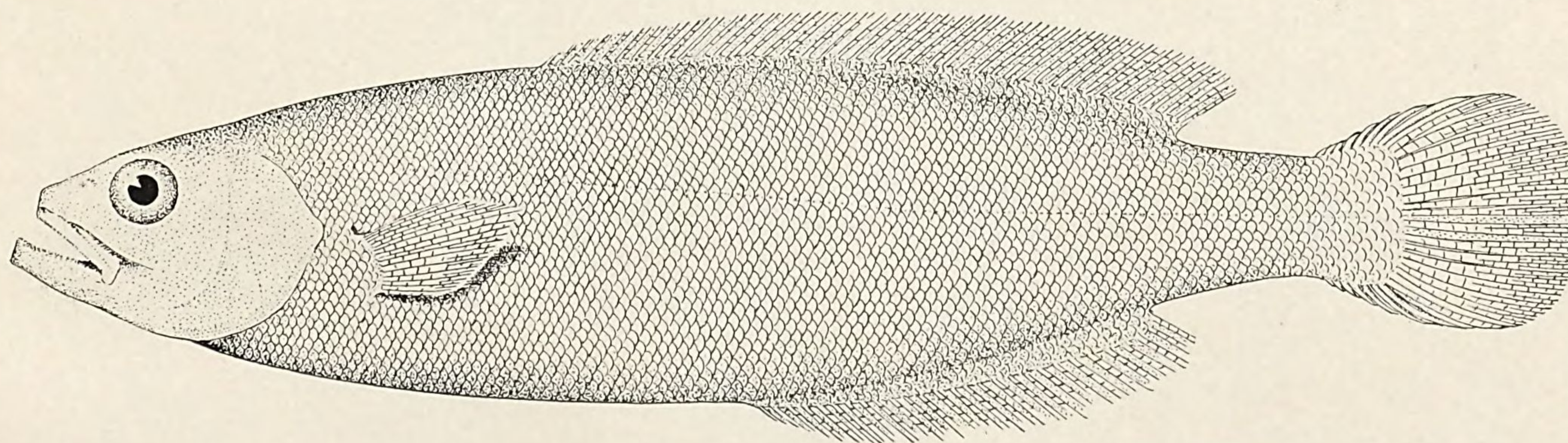
223. SCHEDOPHILUS MEDUSOPHAGUS. (p. 214.)



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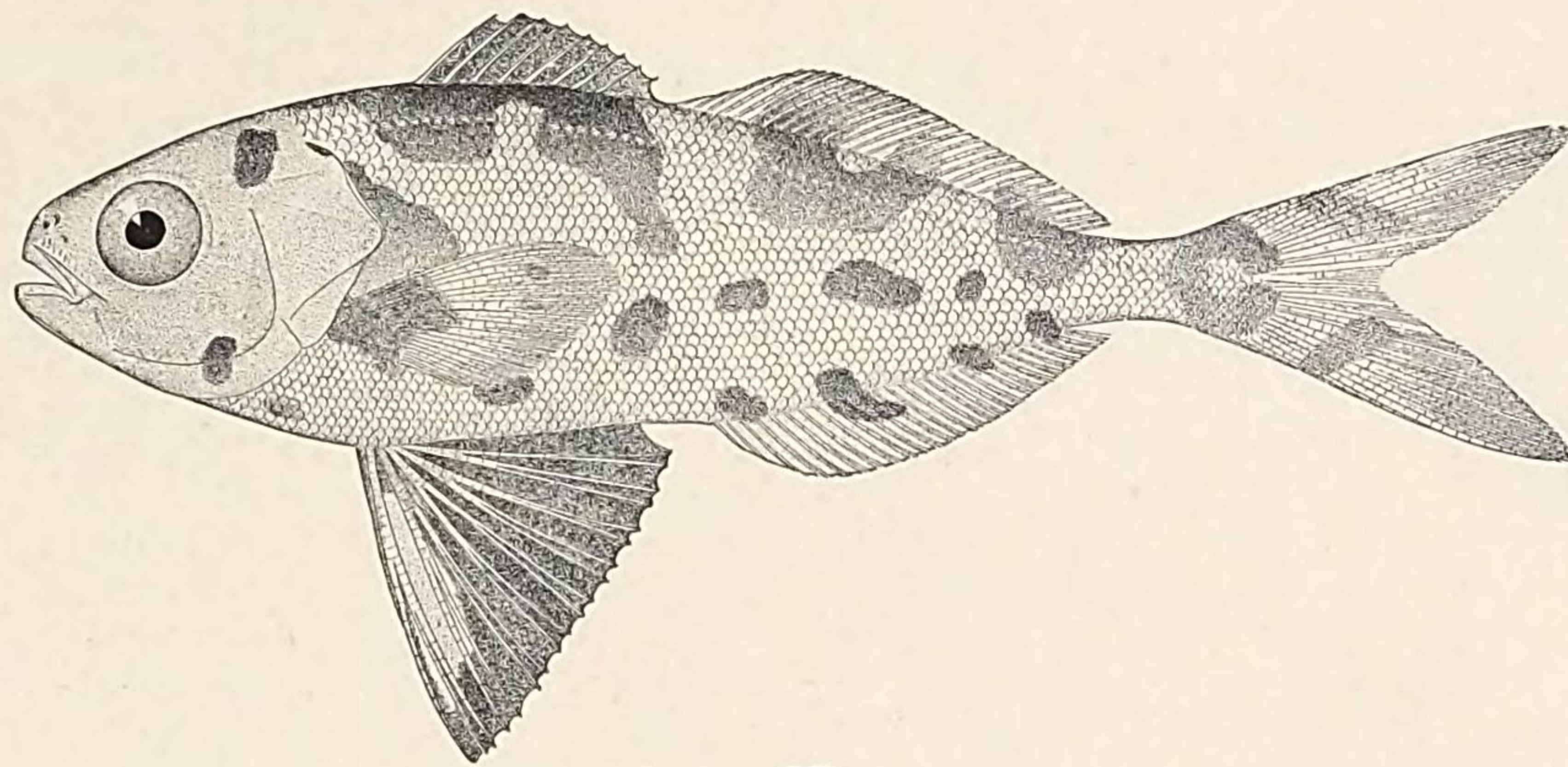


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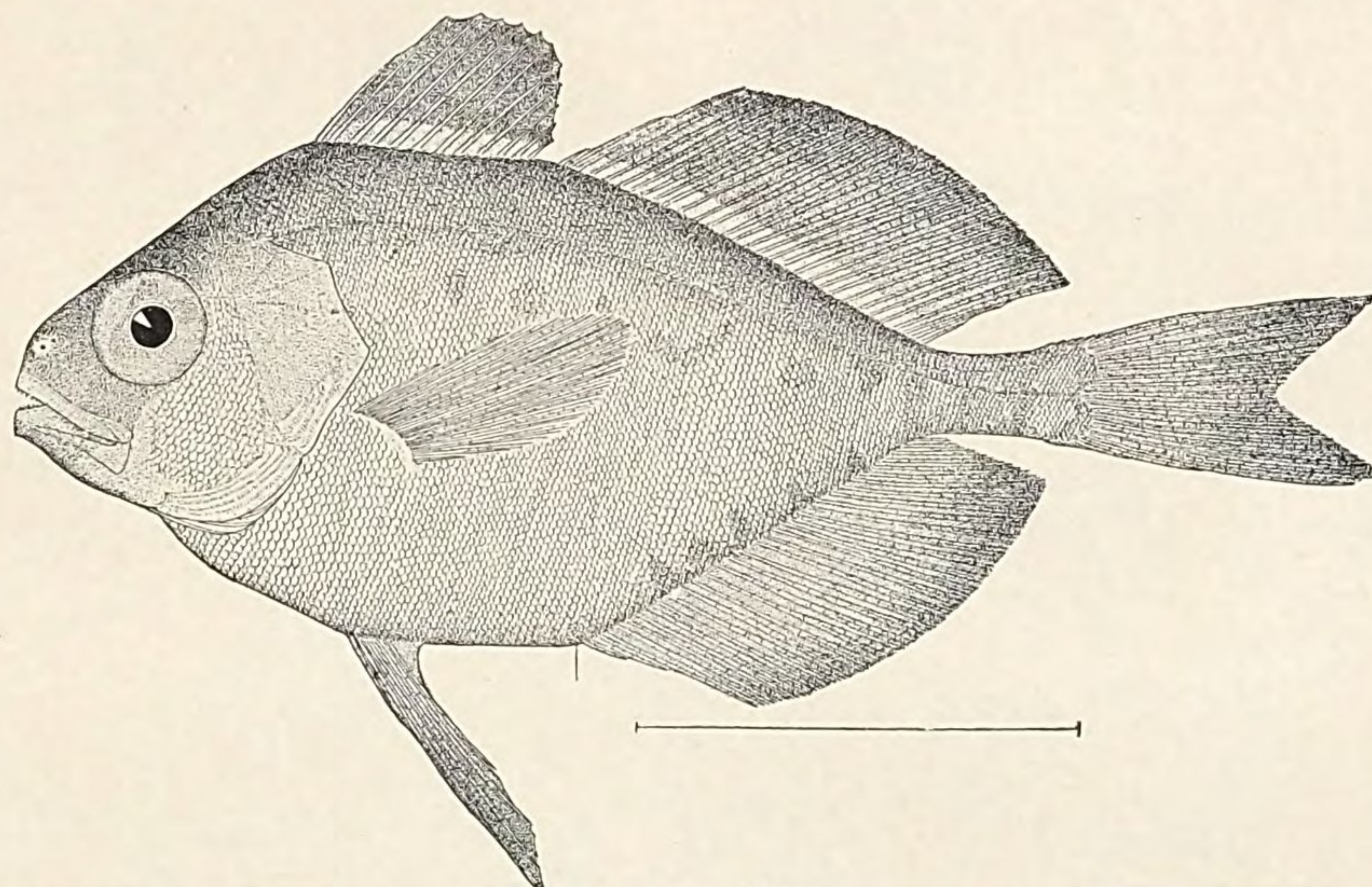
224. ICOSTEUS ENIGMATICUS. (p. 215.)

226. ICICHTHYS LOCKINGTONII. (p. 216.)

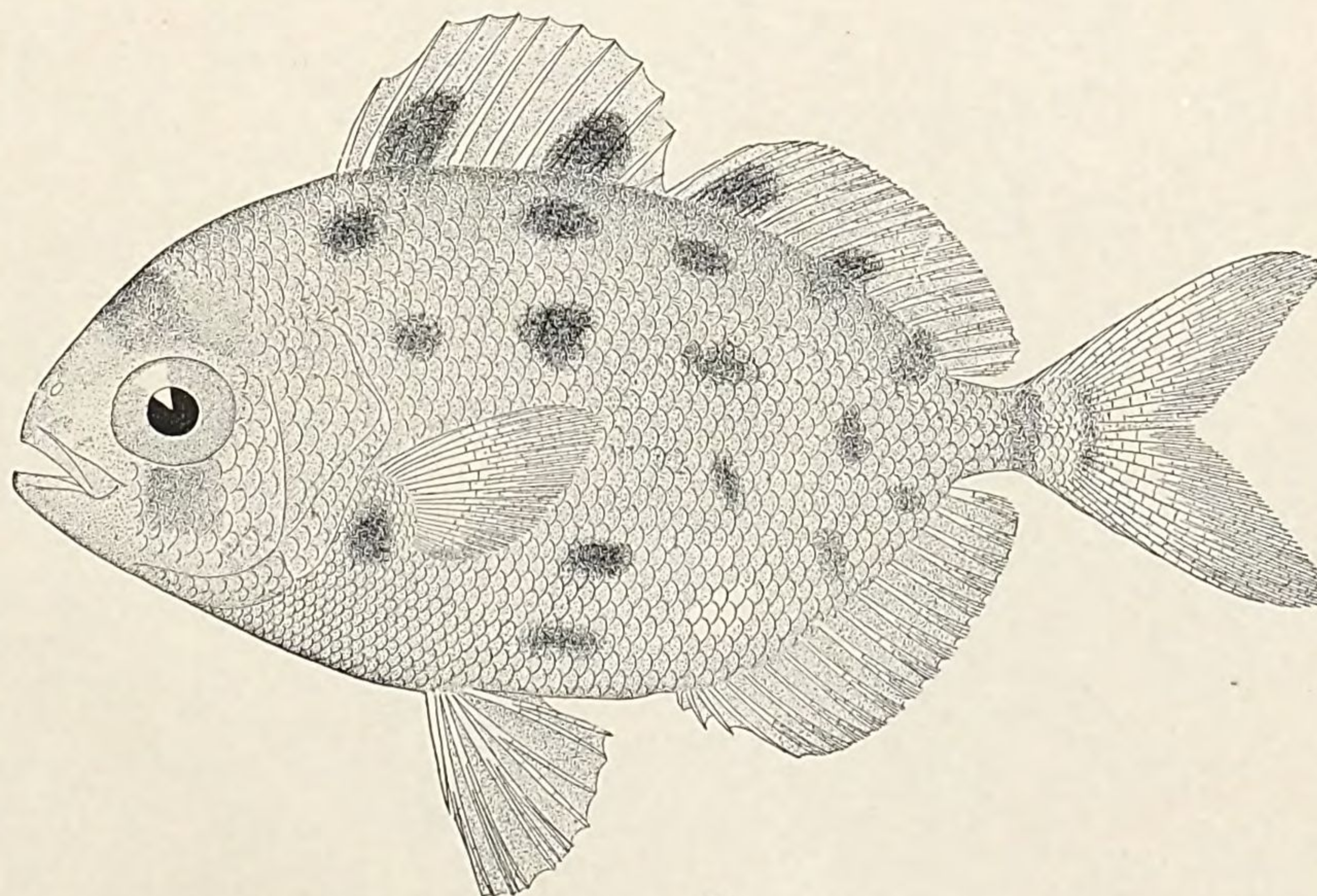
225. ACROTUS WILLOUGHBYI. (p. 217.)



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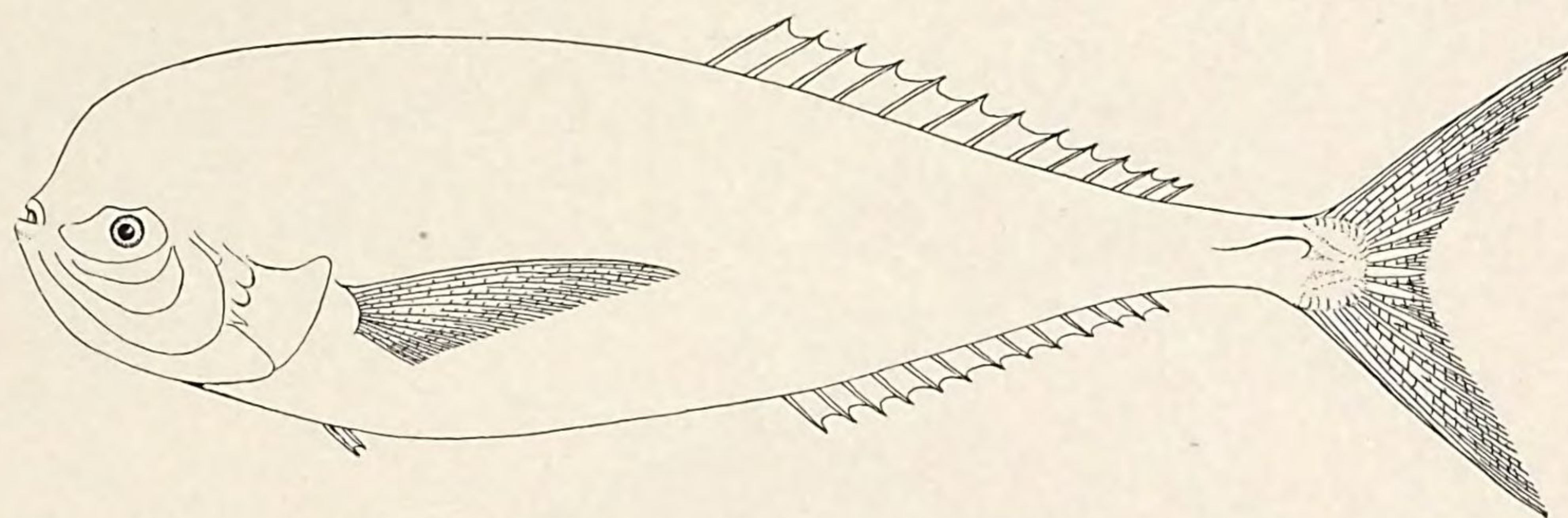


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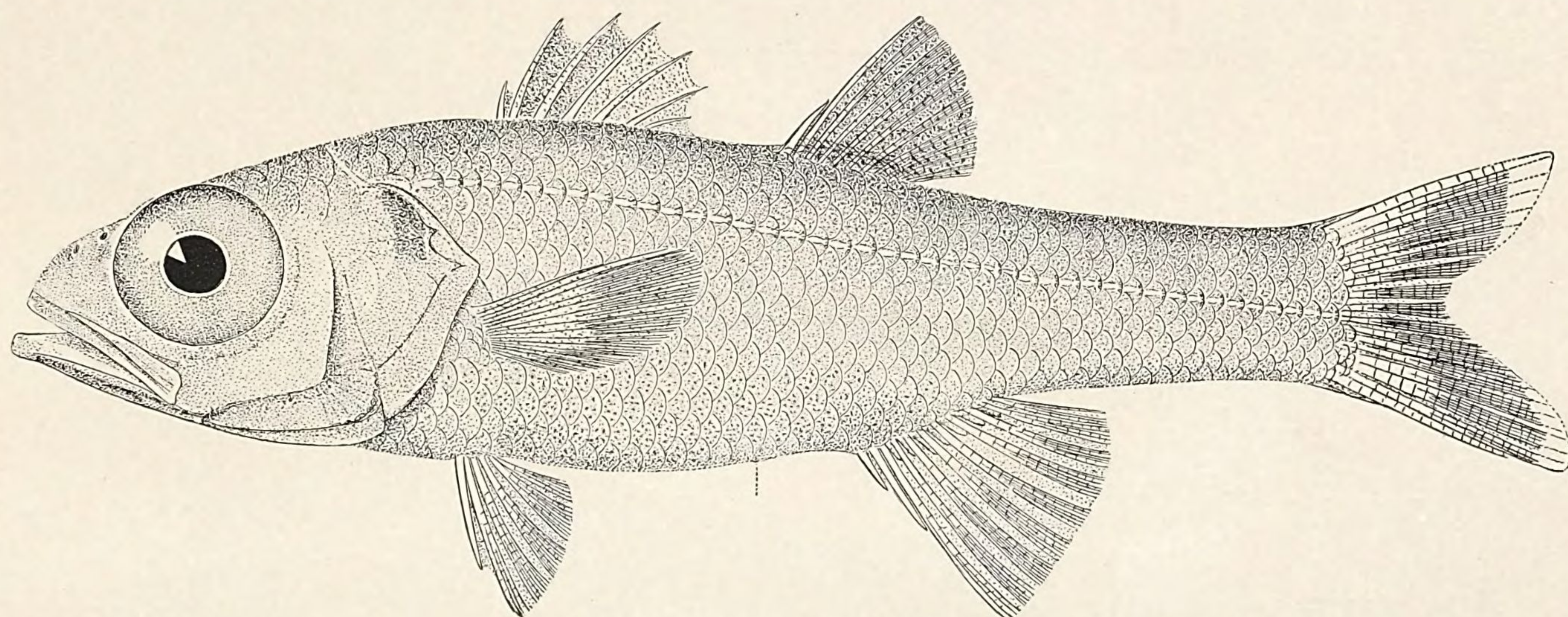


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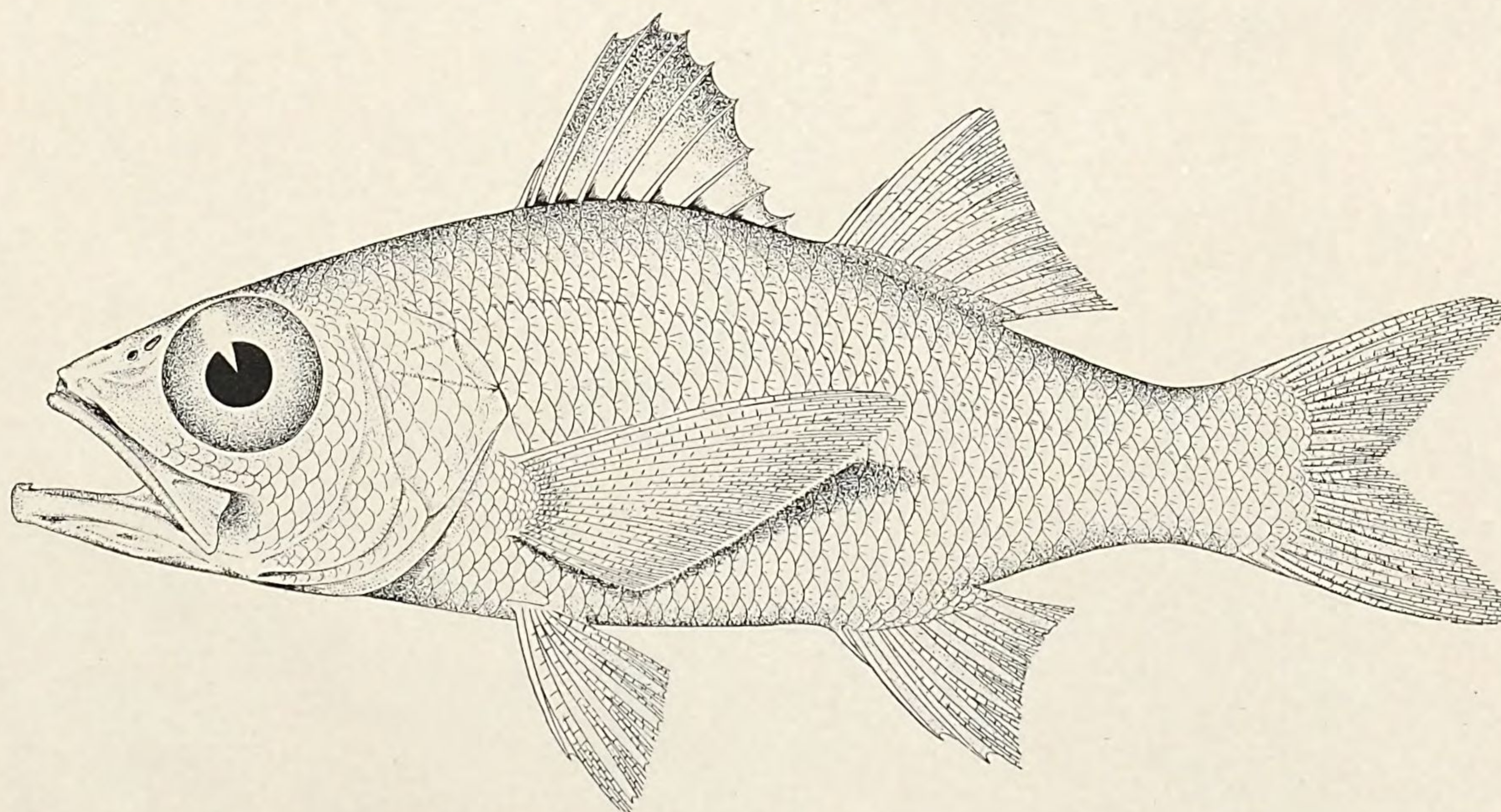
227. *NOMEUS GRONOVII*. (p. 220.) 228. *PSENES PELLUCIDUS*. (p. 221.)
229. *PSENES MACULATUS*. (p. 221.)



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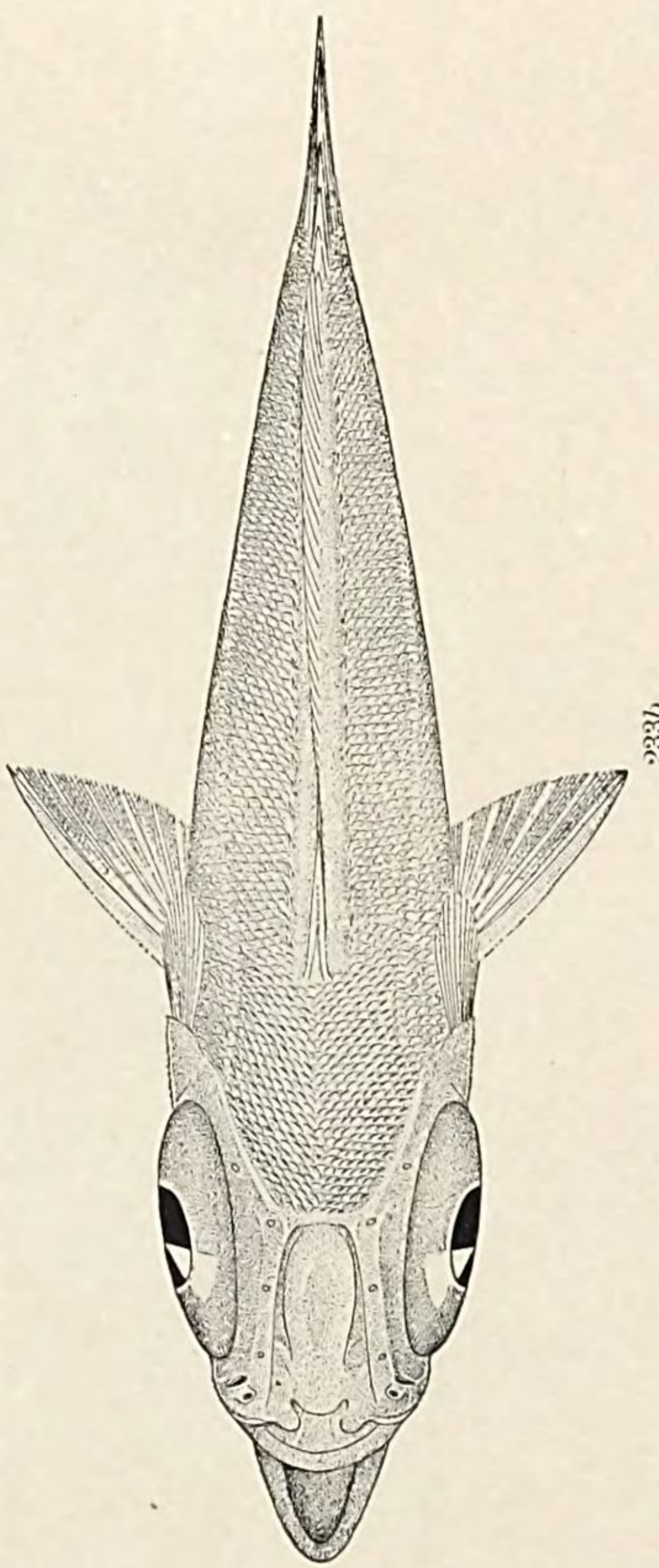
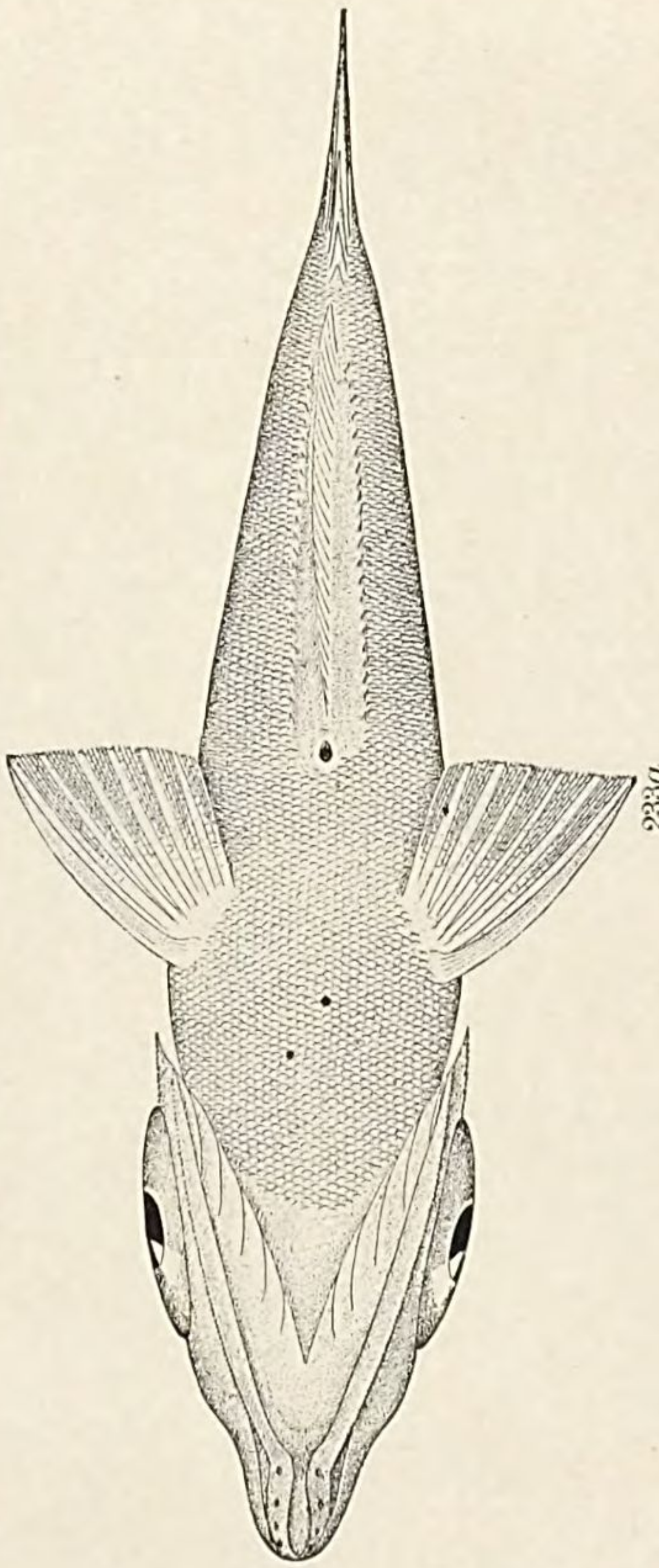
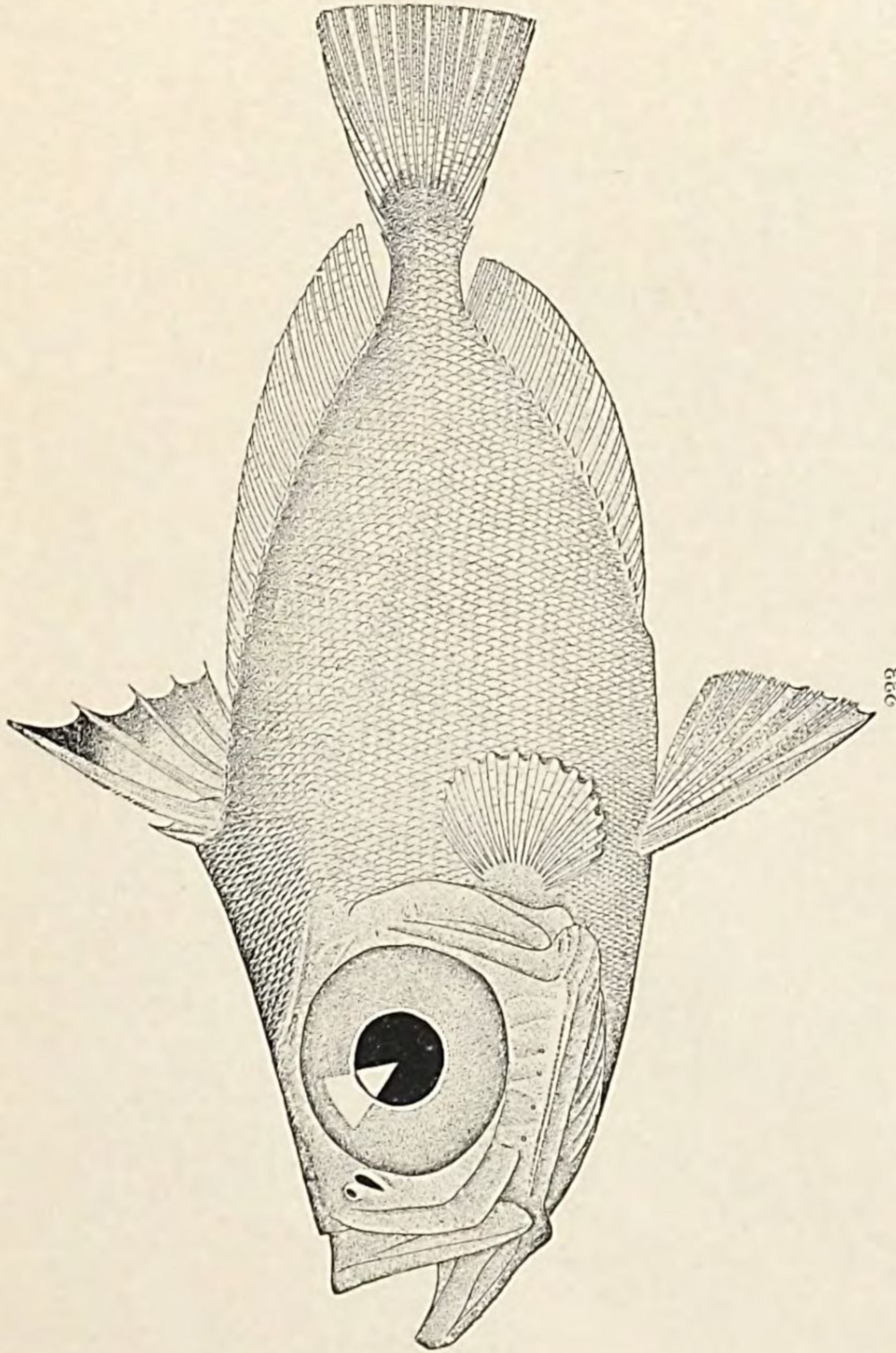
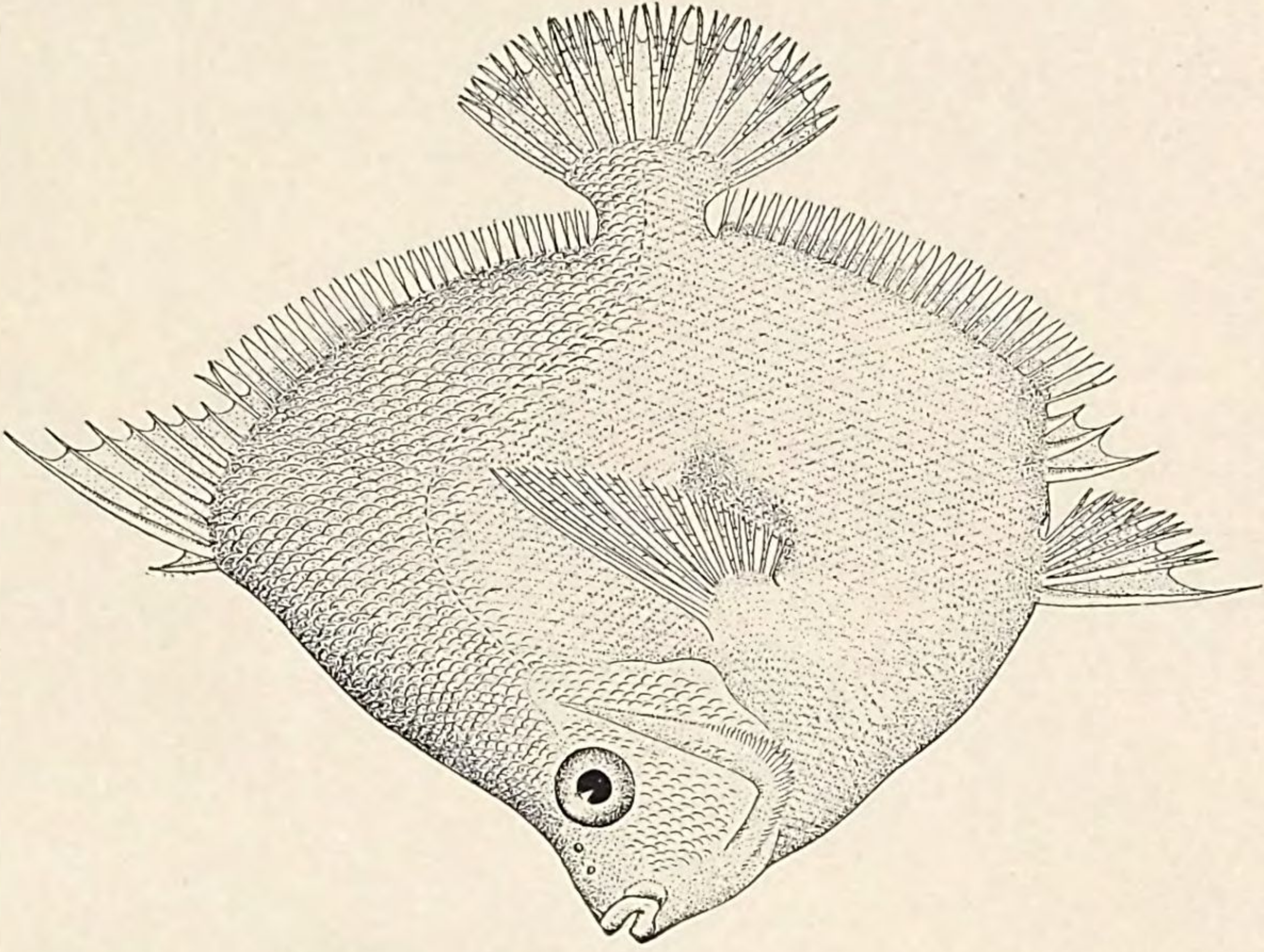
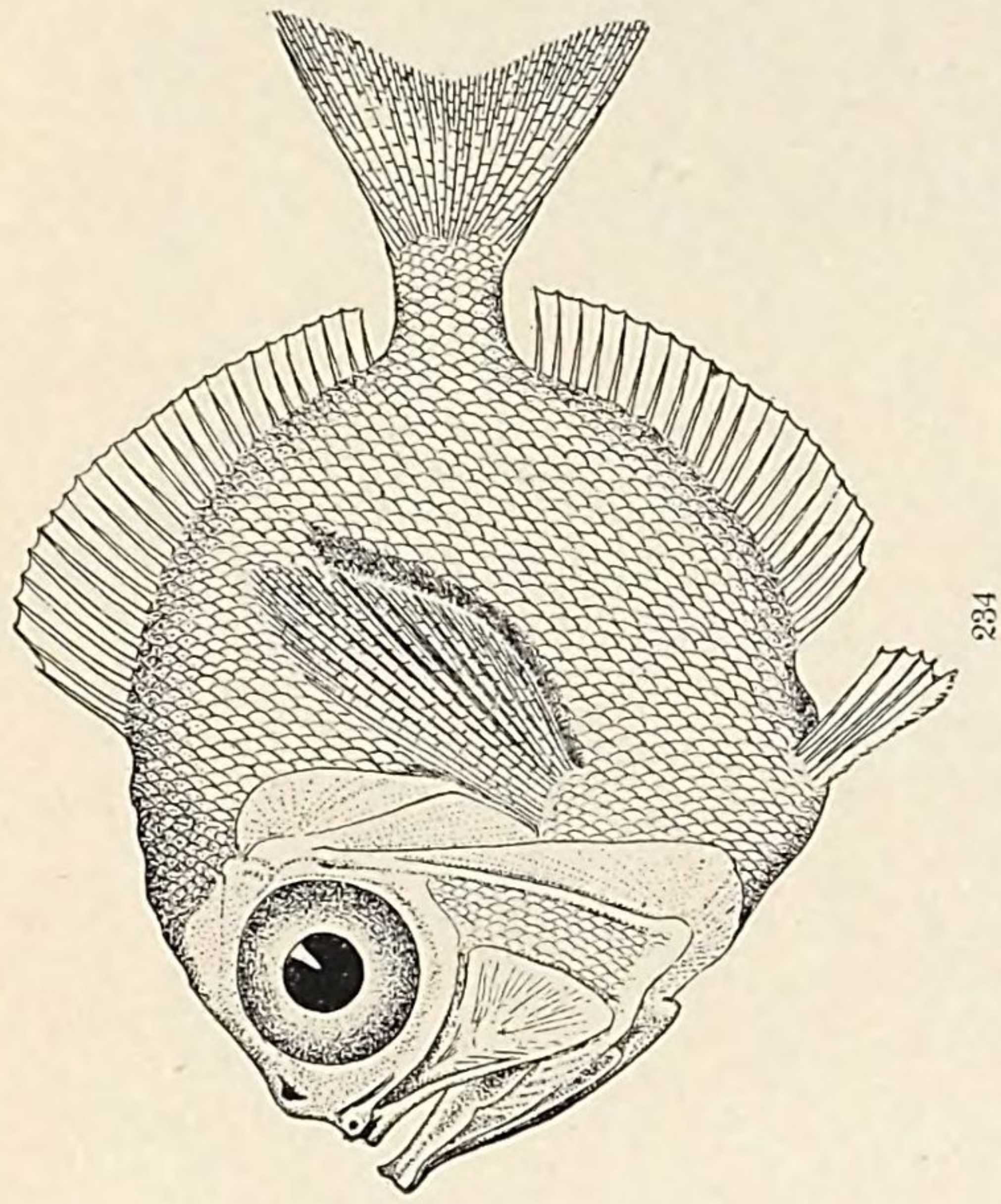


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230. LUVARUS IMPERIALIS. (p. 222.)

232. VERILUS SORDIDUS. (p. 240.)

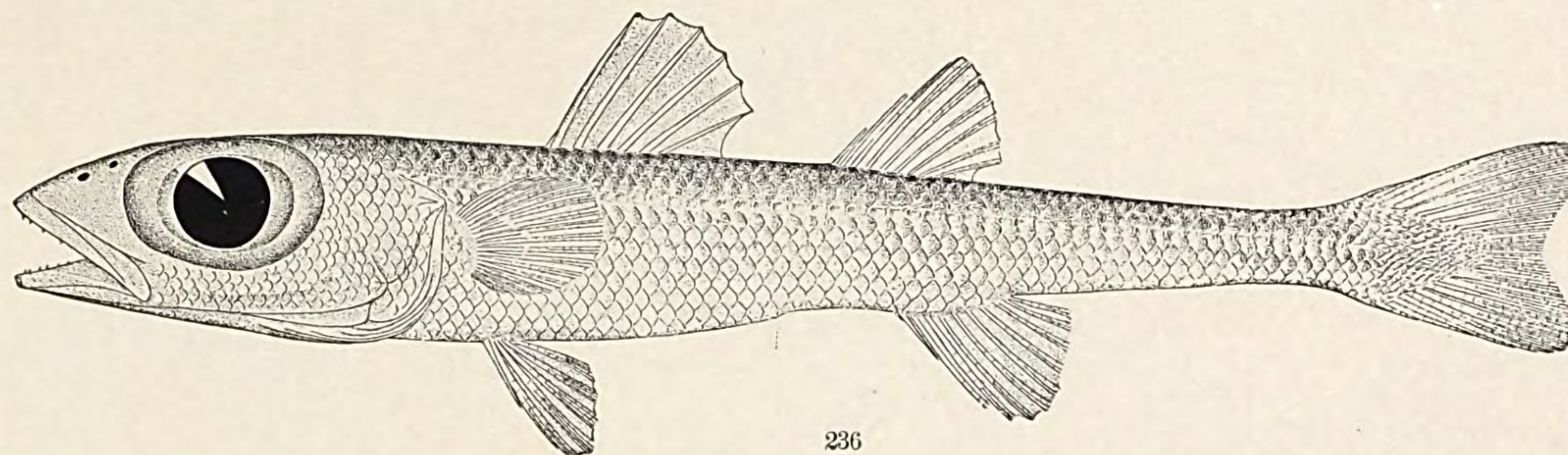
231. GLOSSAMIA PANDIONIS. (p. 231.)



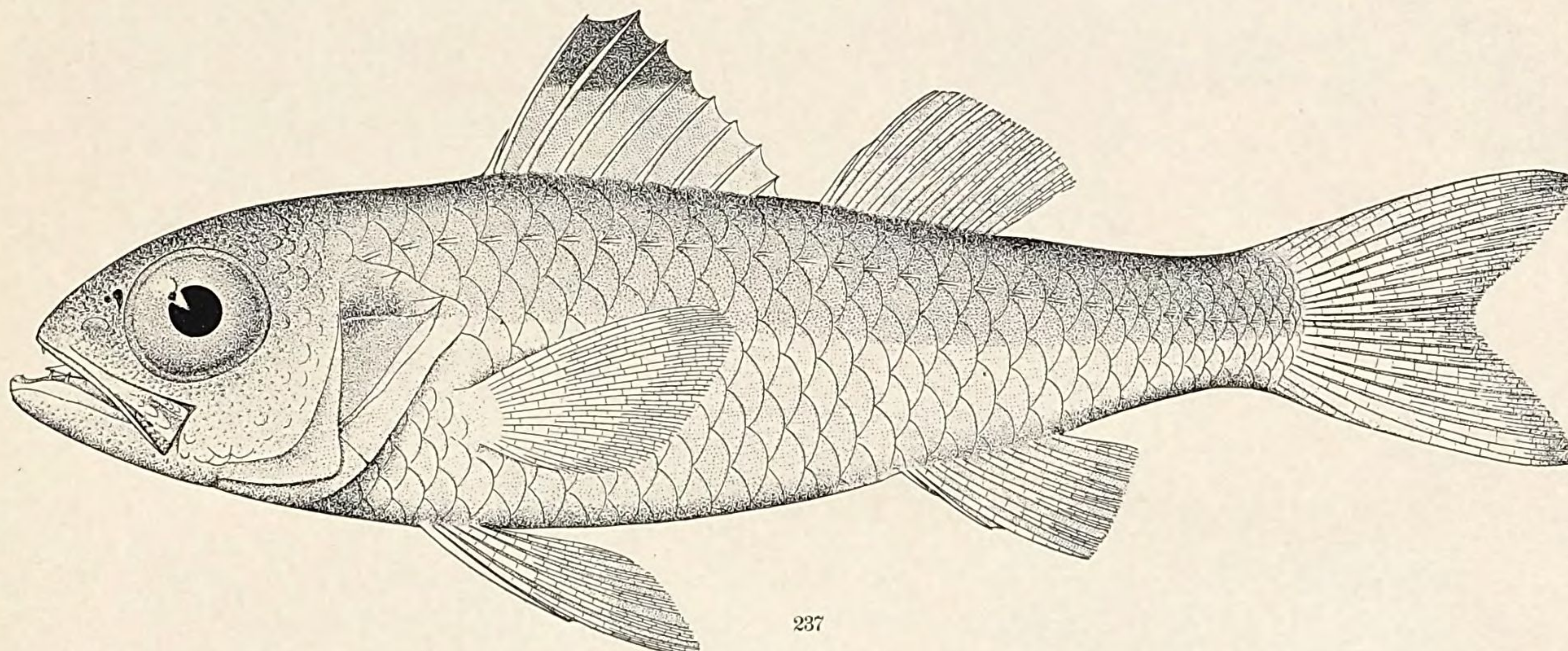
235. ANTIGONIA CAPROS. (p. 229.)

234. DIRETMUS ARGENTEUS. (p. 211.)

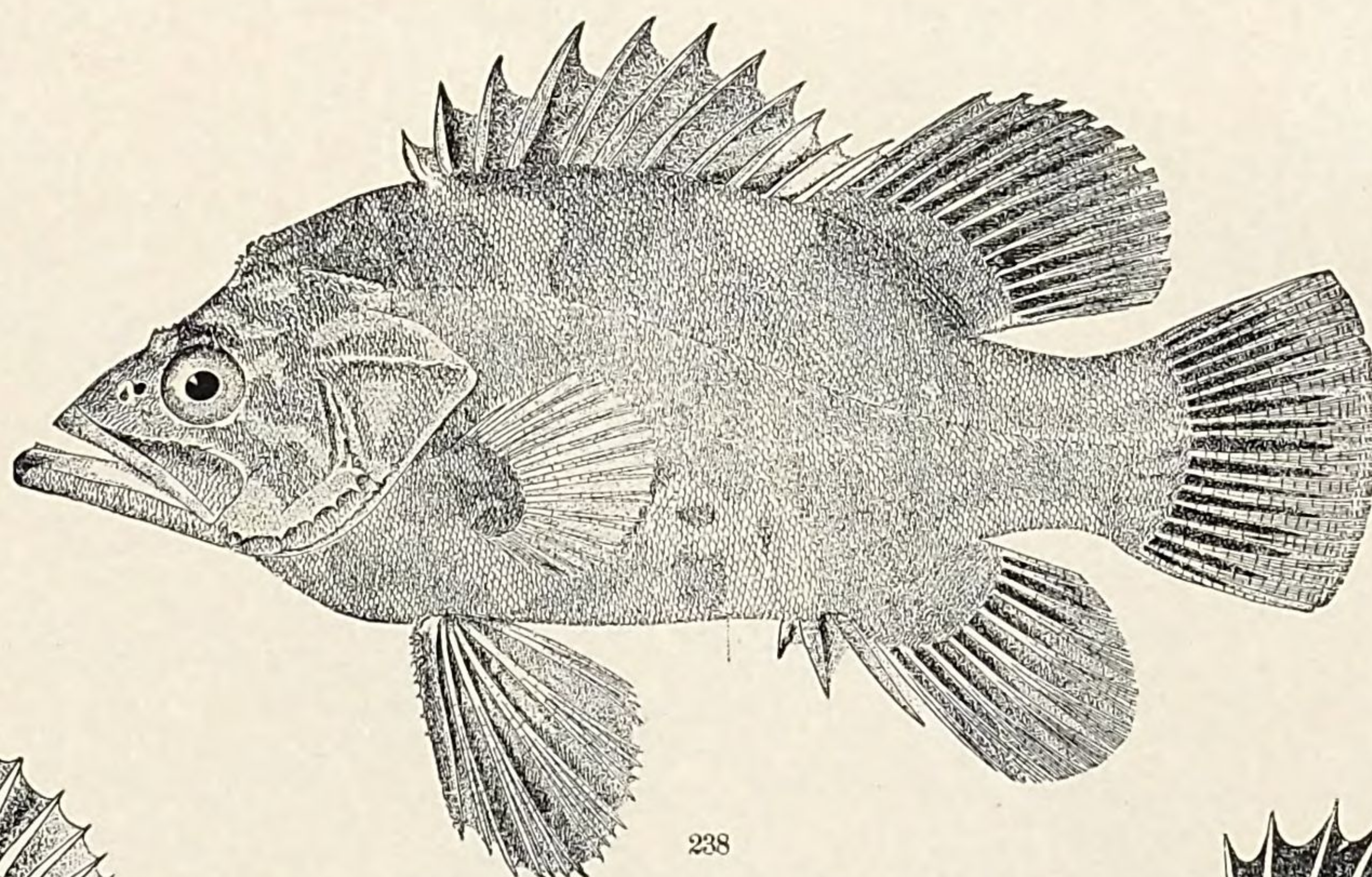
233, 233a, b. CYTTUS HOLOLEPIS. (p. 225.)



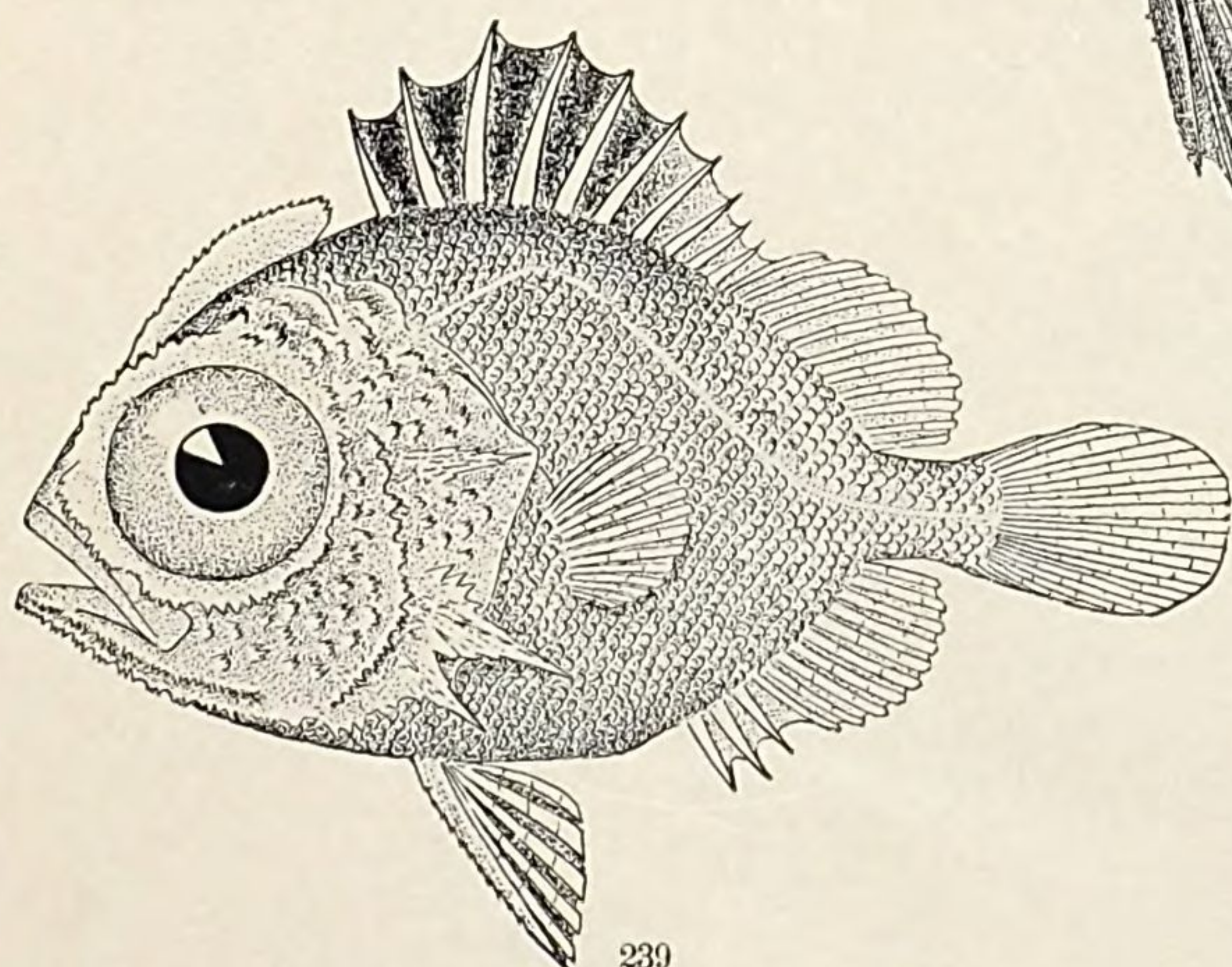
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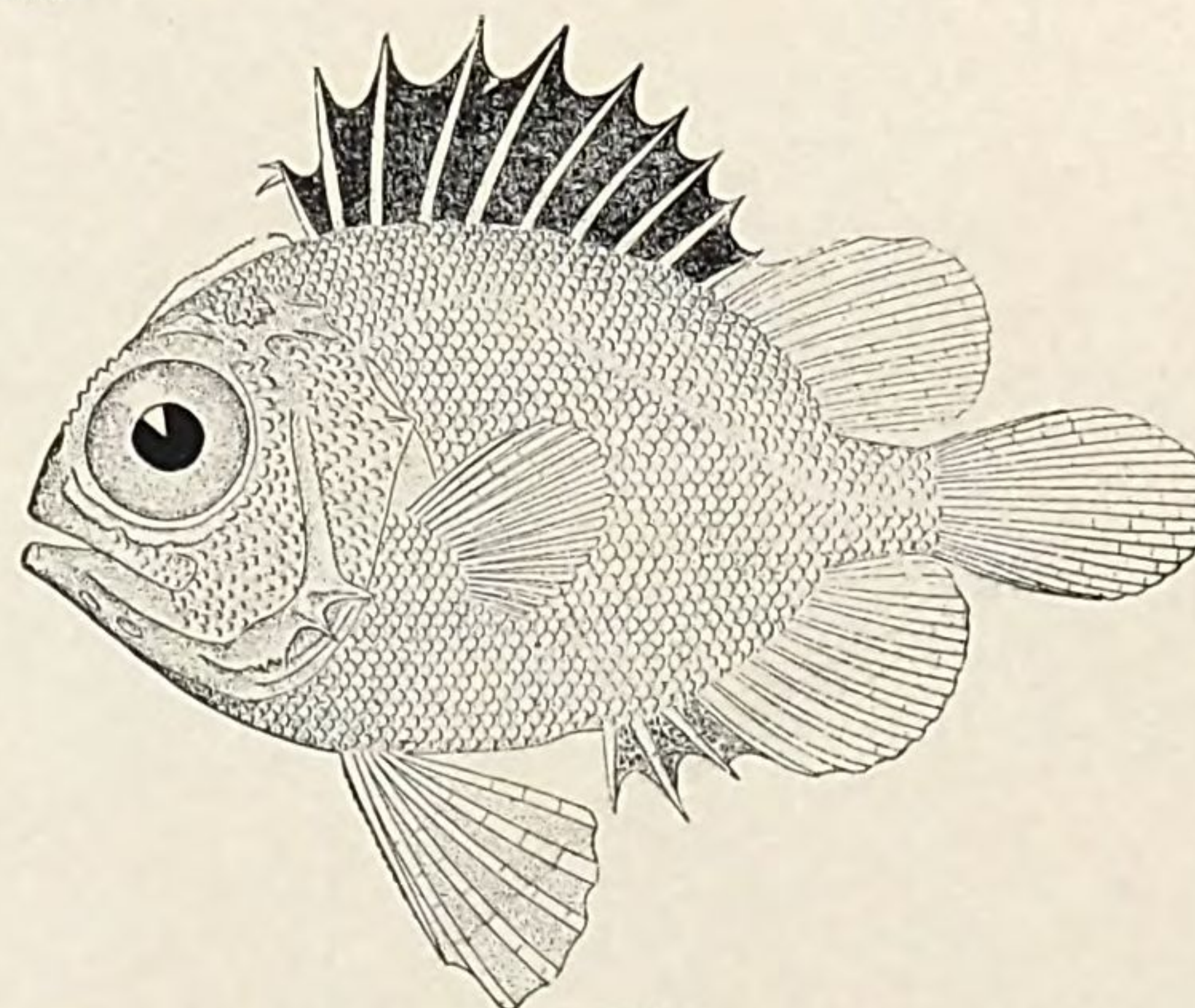
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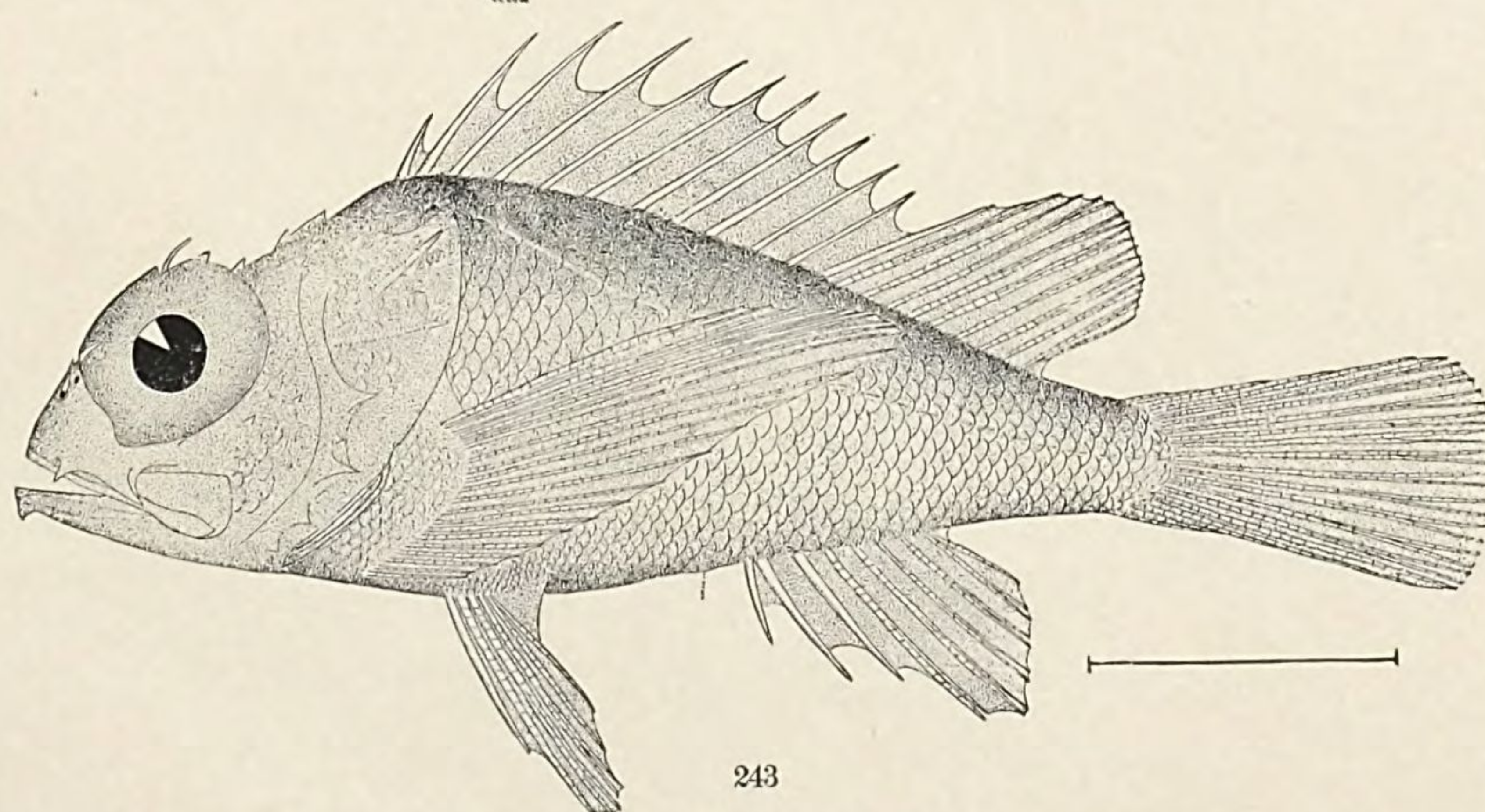
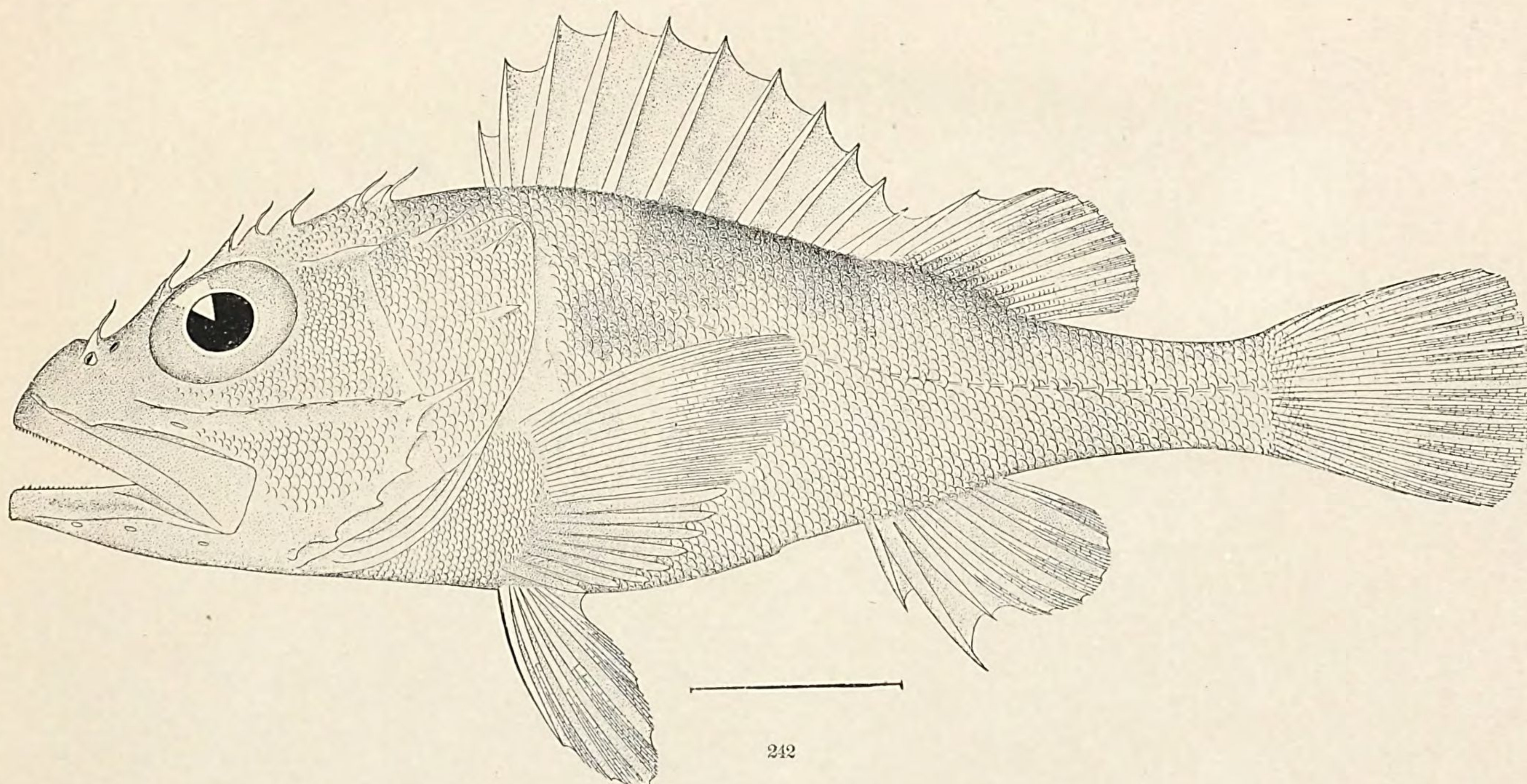
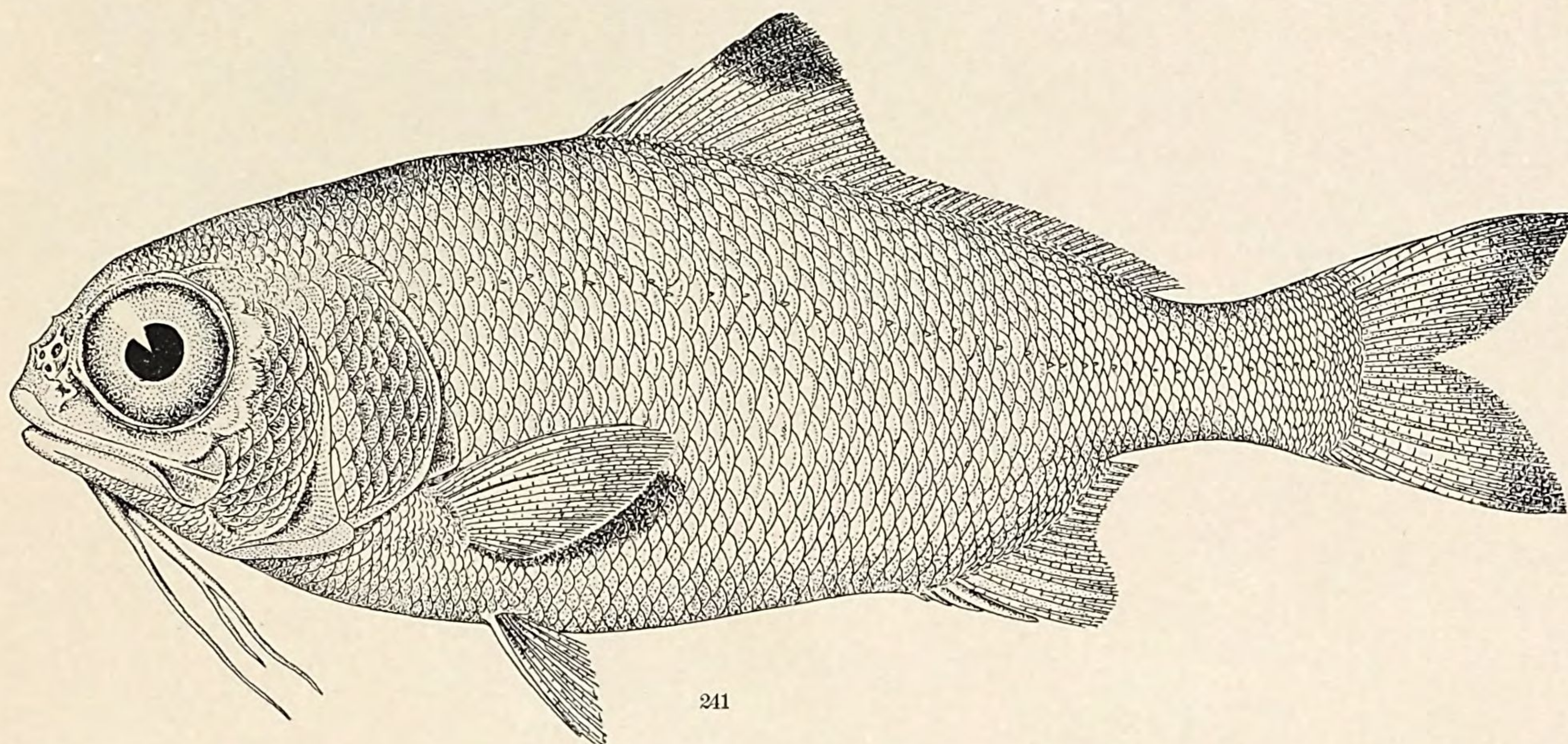
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236. *EPIGONUS OCCIDENTALIS*. (p. 233.)
238. *POLYPRION AMERICANUM*. (p. 238.)

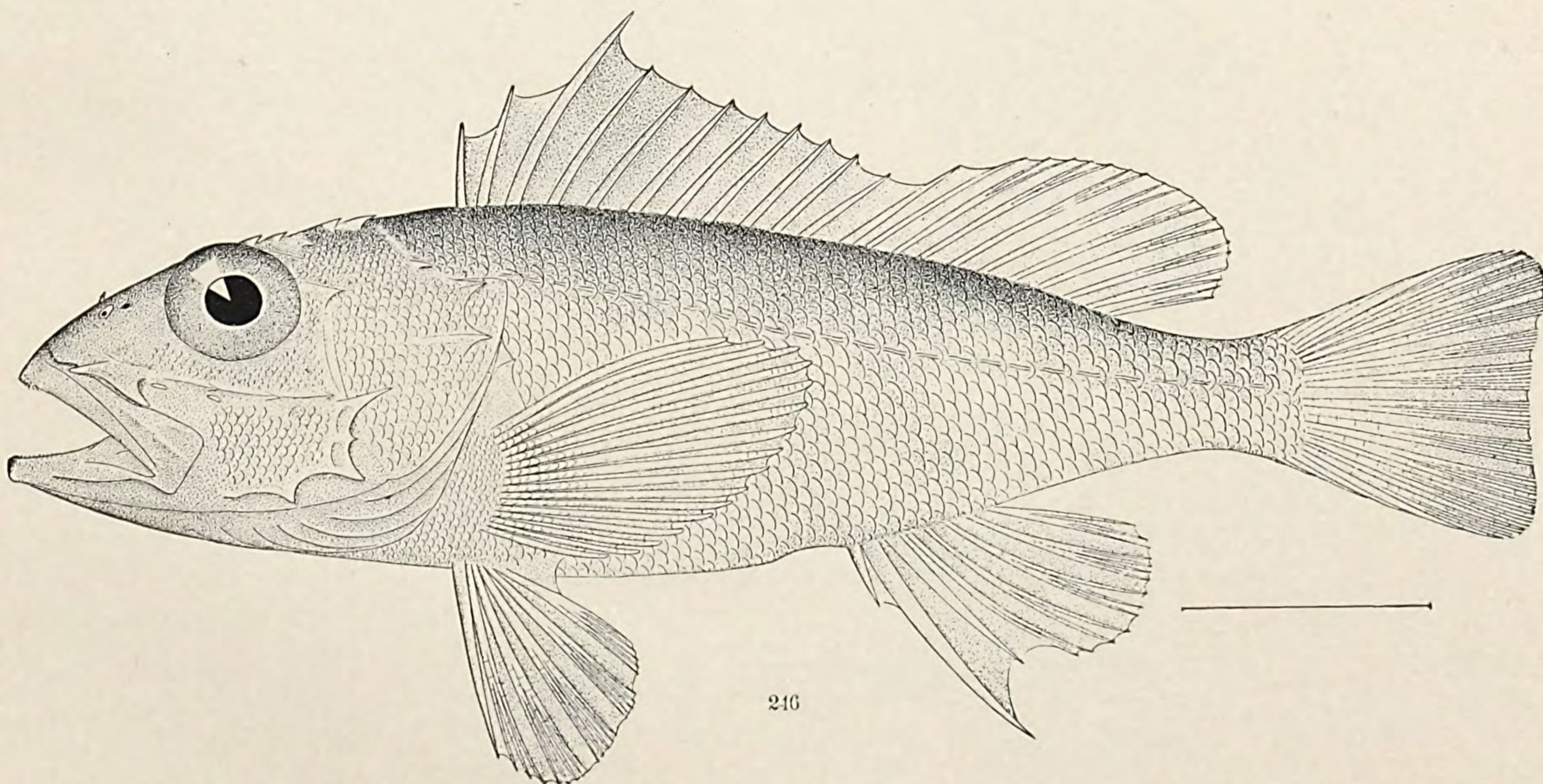
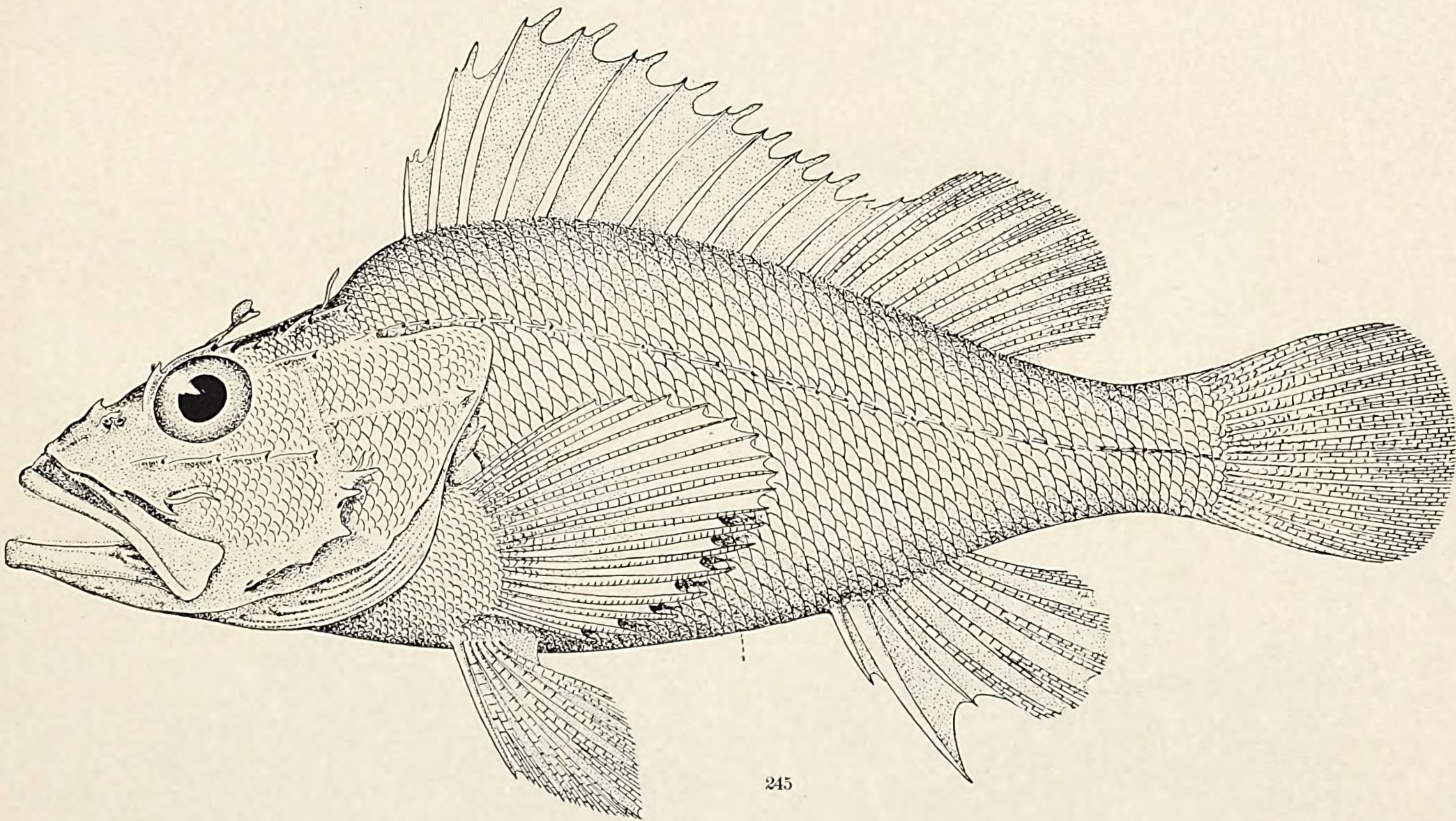
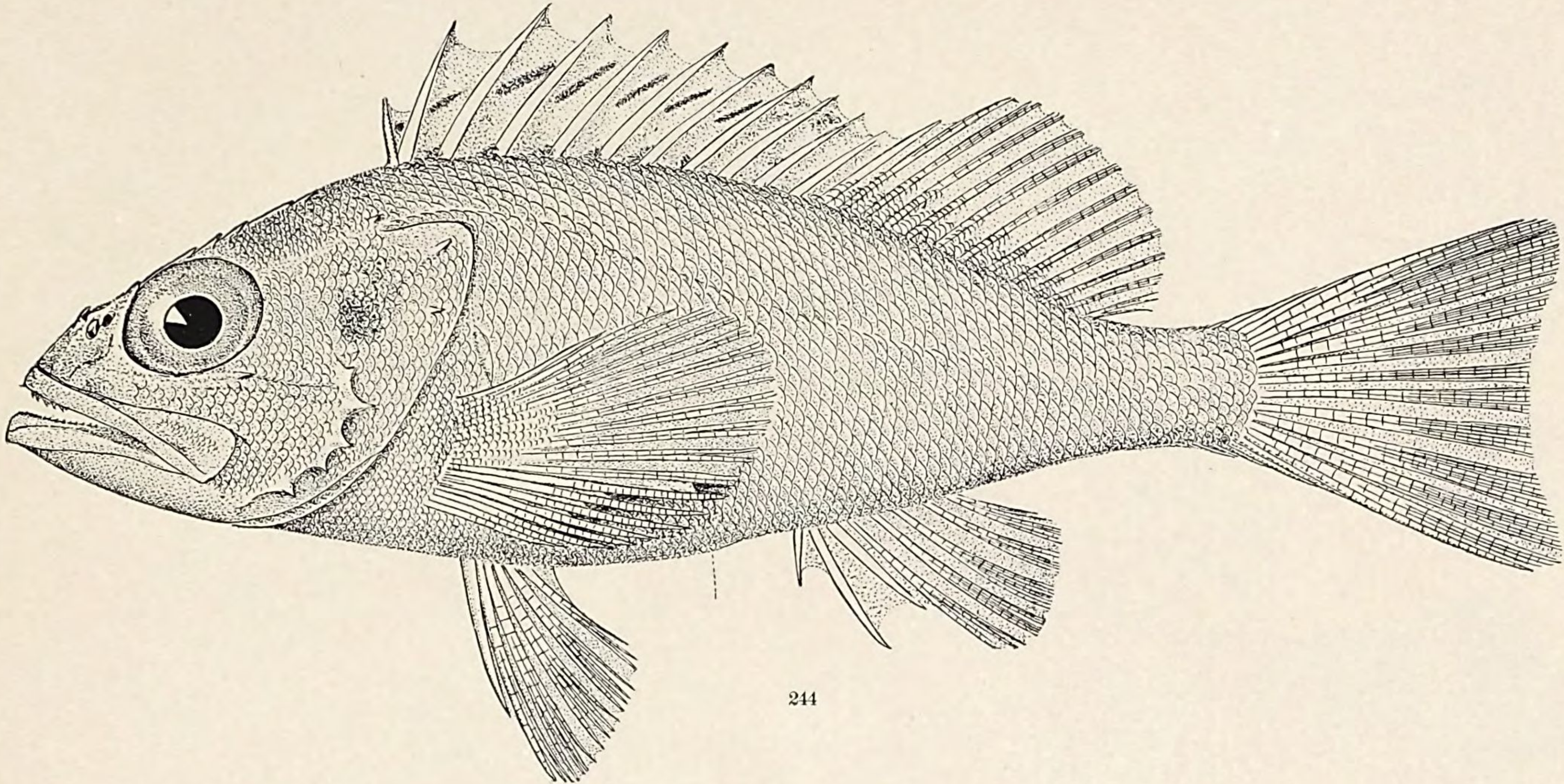
237. *HYPOCLYDONIA BELLA*. (p. 236.)
239, 240. *PSEUDOPRIACANTHUS ALTUS*. (p. 242.)



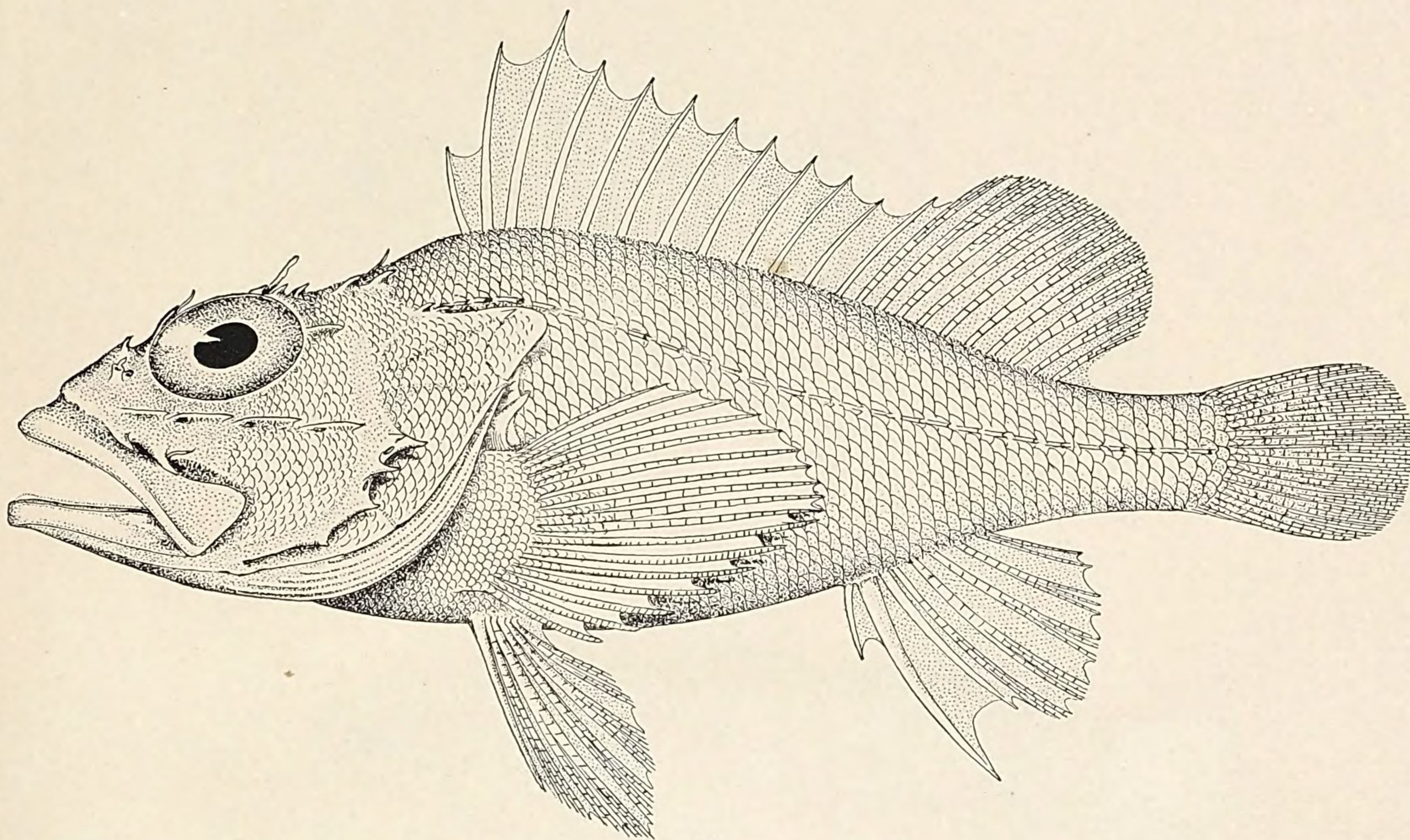
241. *POLYMIXIA NOBILIS*. (p. 243.)

242. *SCORPÆNA CRISTULATA*. (p. 246.)

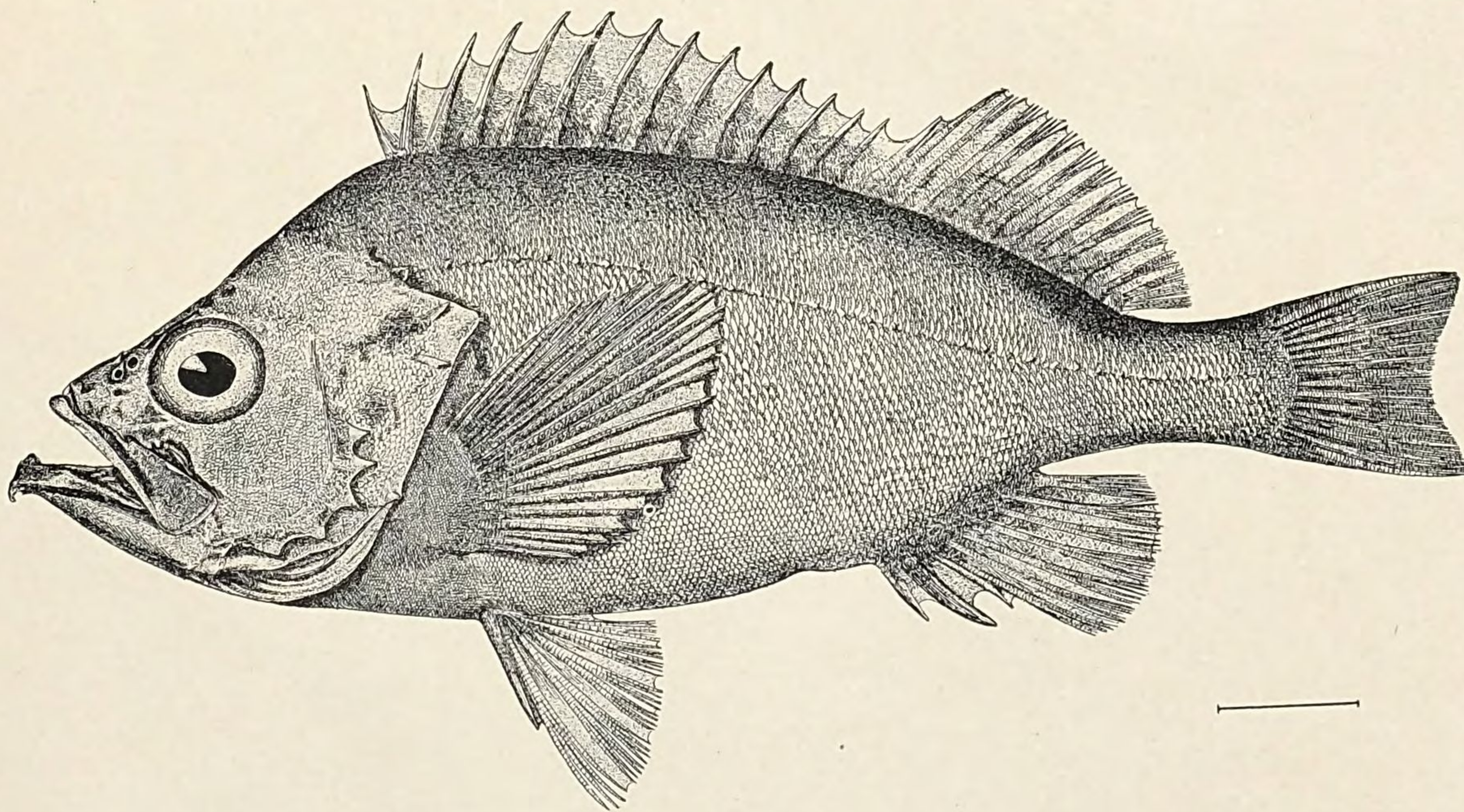
243. *SCORPÆNA AGASSIZII*. (p. 247.)



244. *HELICOLENUS DACTYLOPTERUS*. (p. 250.)
245. *PONTINUS RATHBUNI*. (p. 255.)
246. *PONTINUS LONGISPINIS*. (p. 258.)



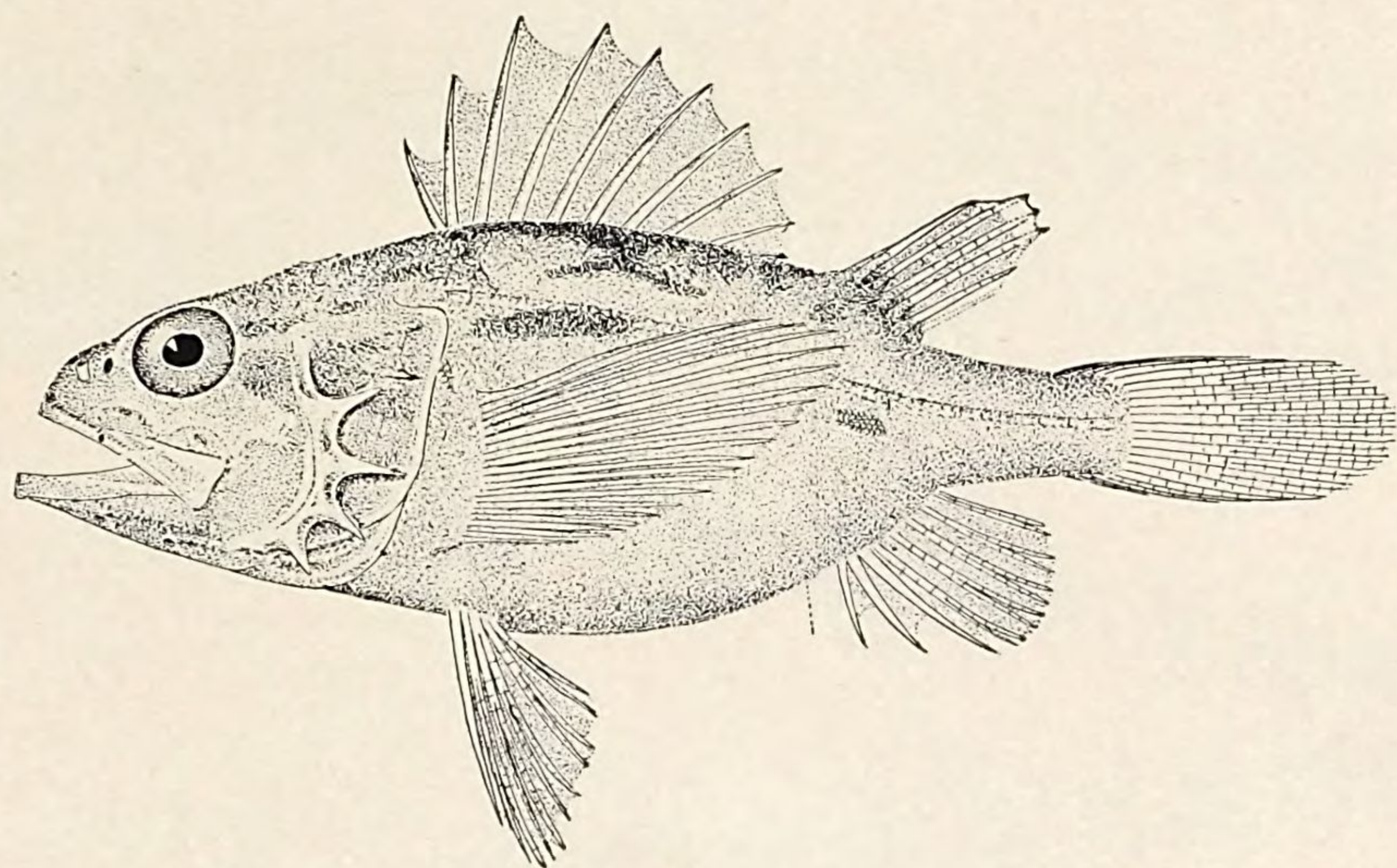
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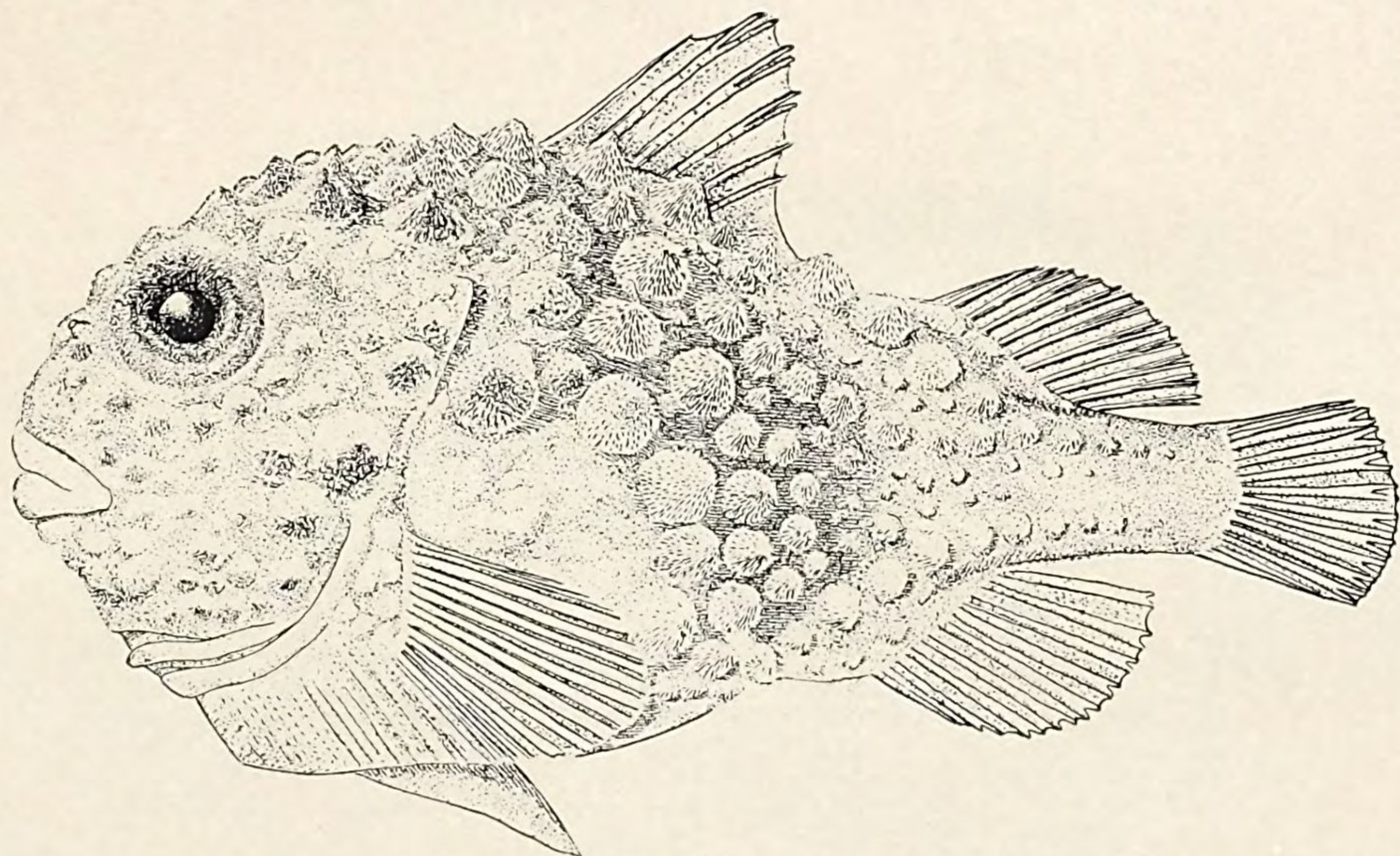
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247. PONTINUS MACROLEPIS. (p. 257.)

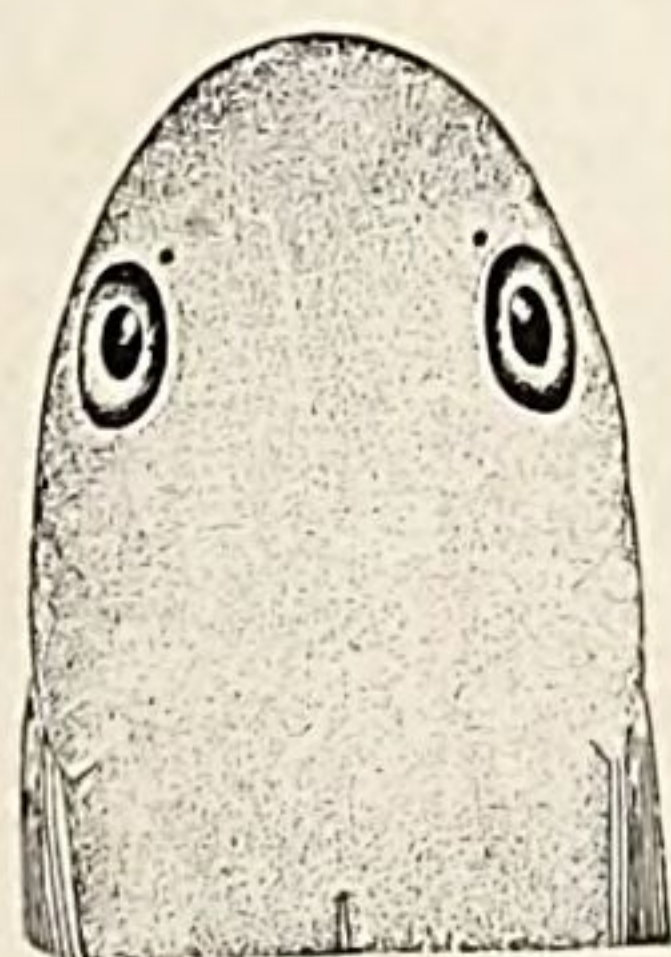
248. SEBASTES MARINUS. (p. 260.)



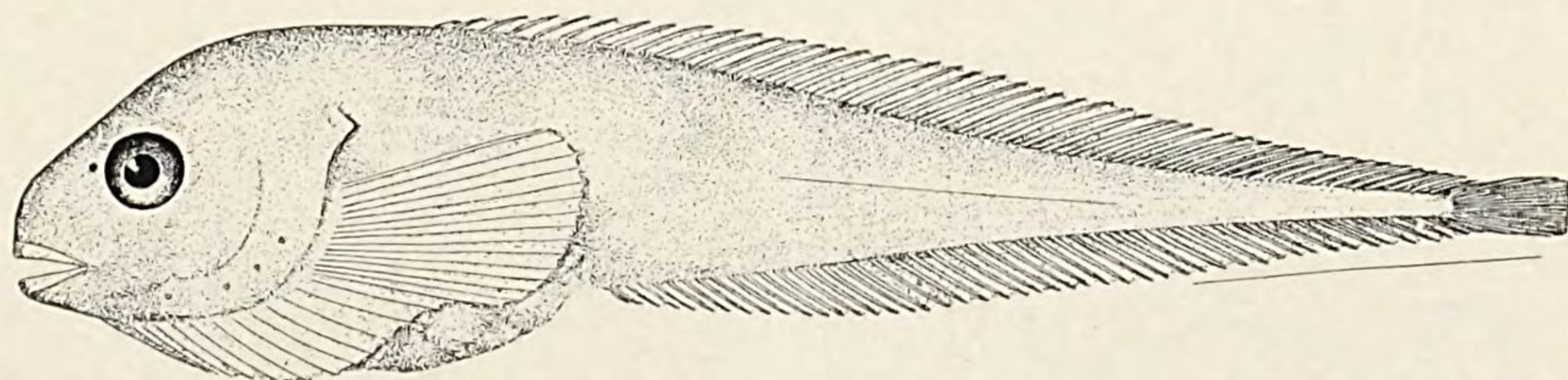
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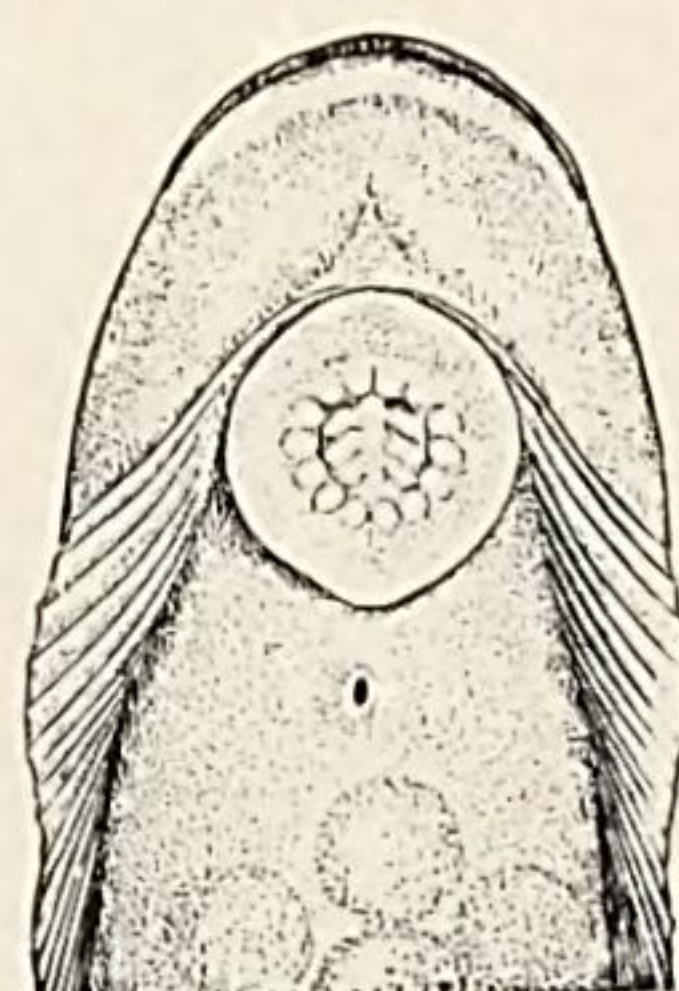
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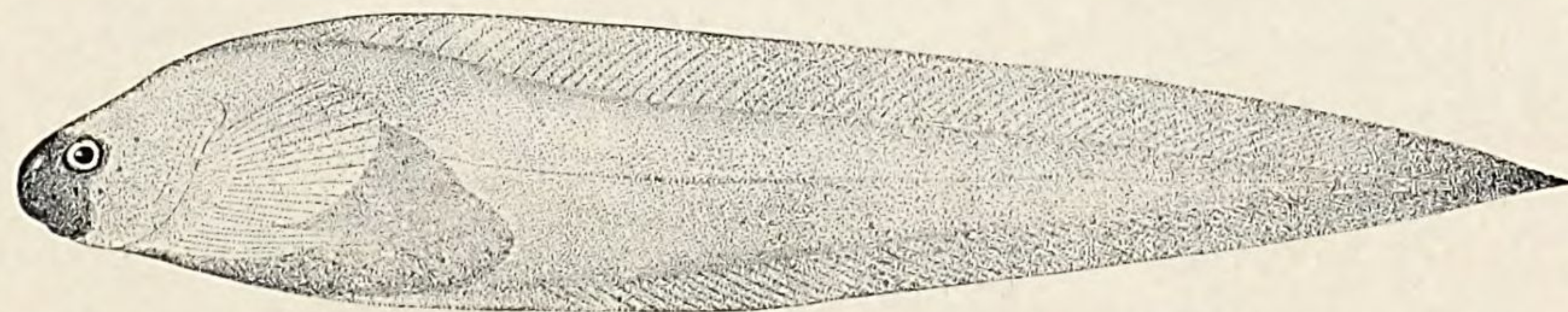
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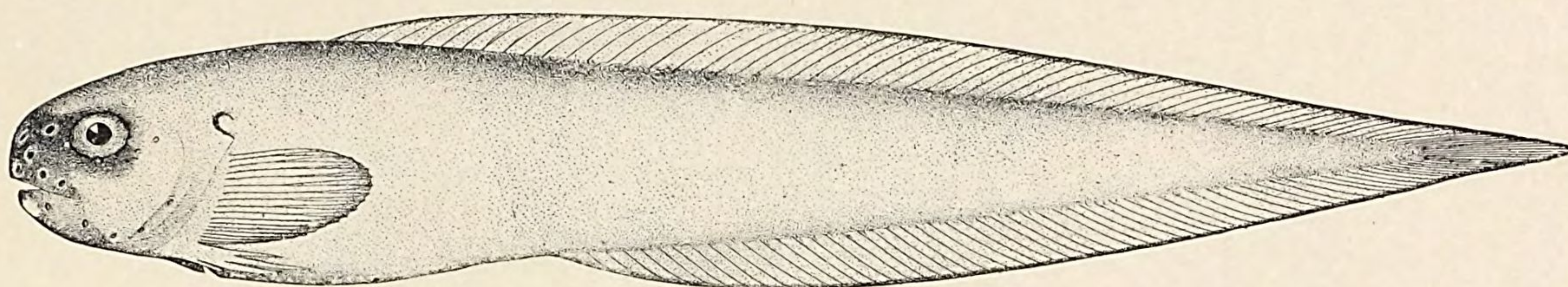
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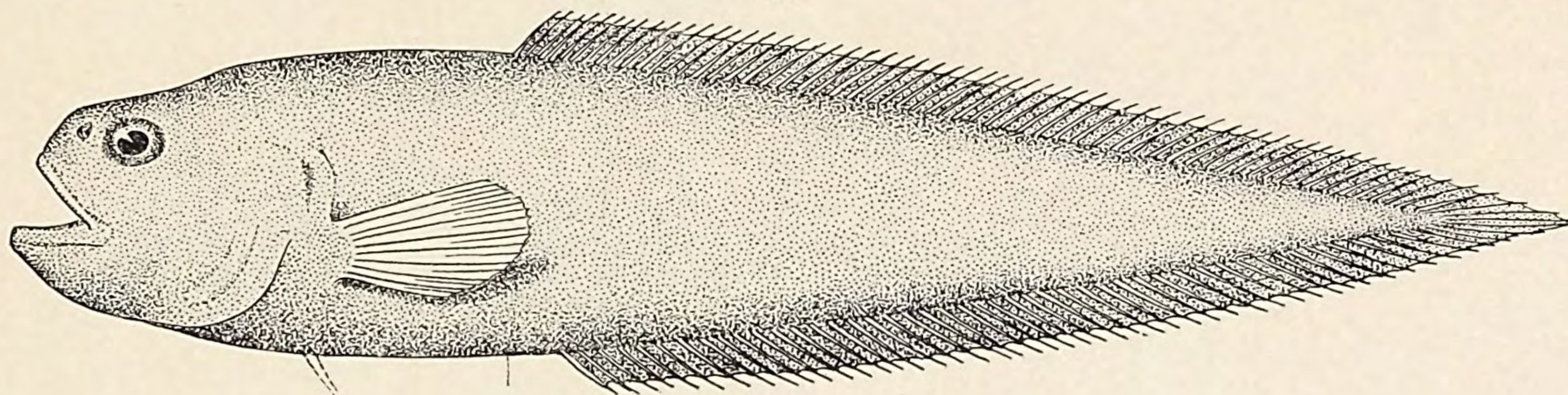
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249. SETARCHES PARMATUS. (p. 264.)
251, 251a, b. CAREPROCTUS RANULA. (p. 275.)

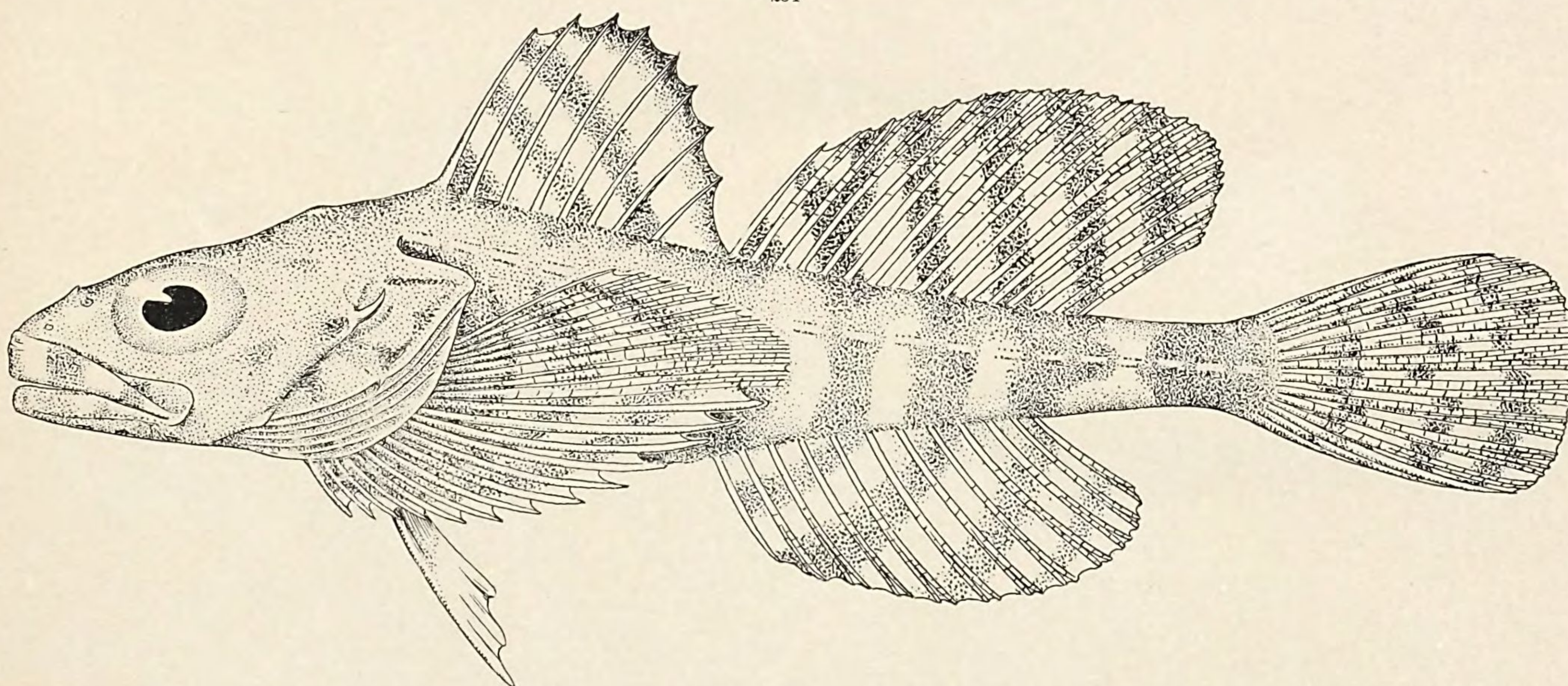
250. EUMICROTREMUS SPINOSUS. (p. 272.)
252. MONOMITRA LIPARINA. (p. 278.)



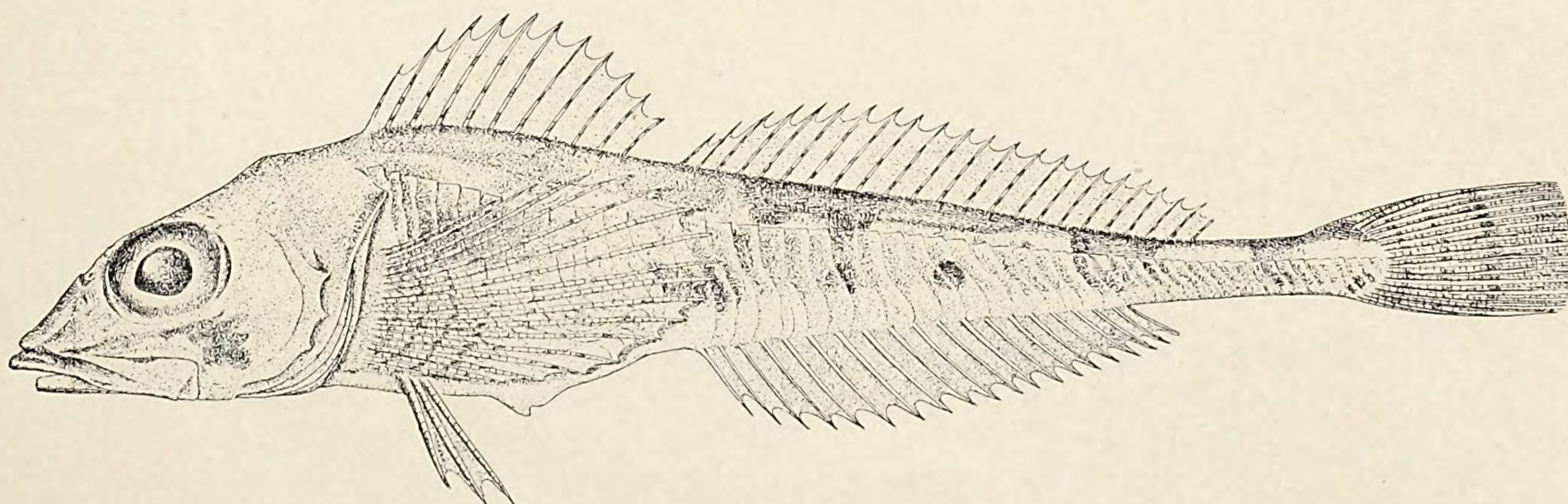
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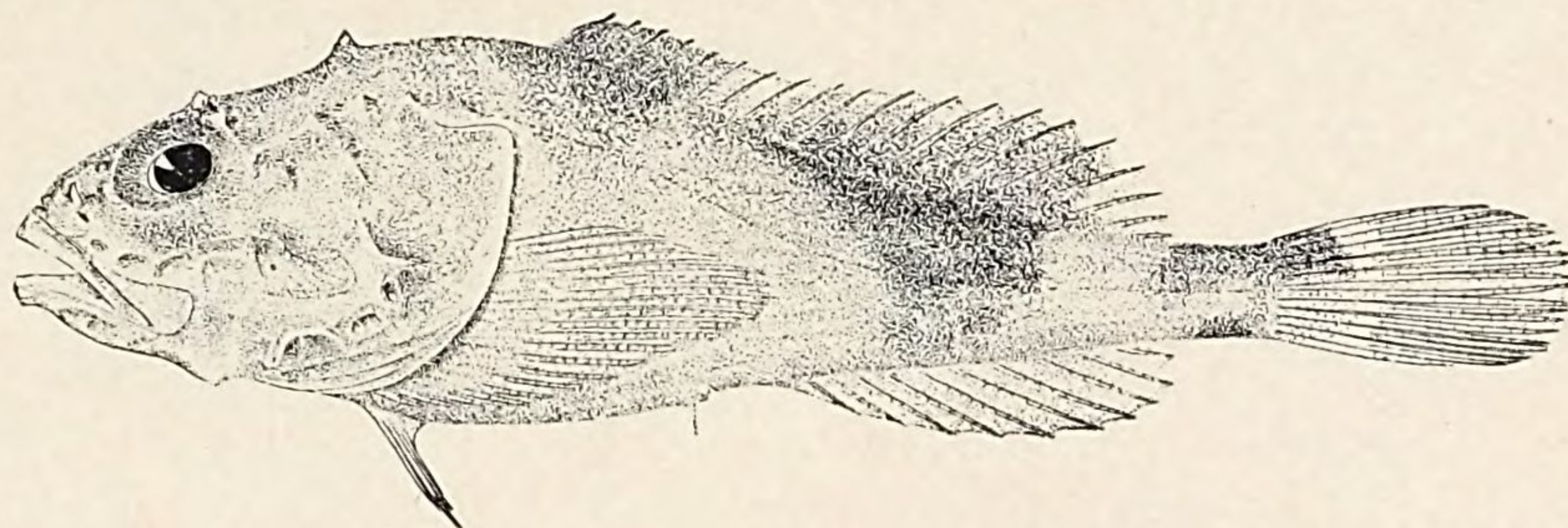
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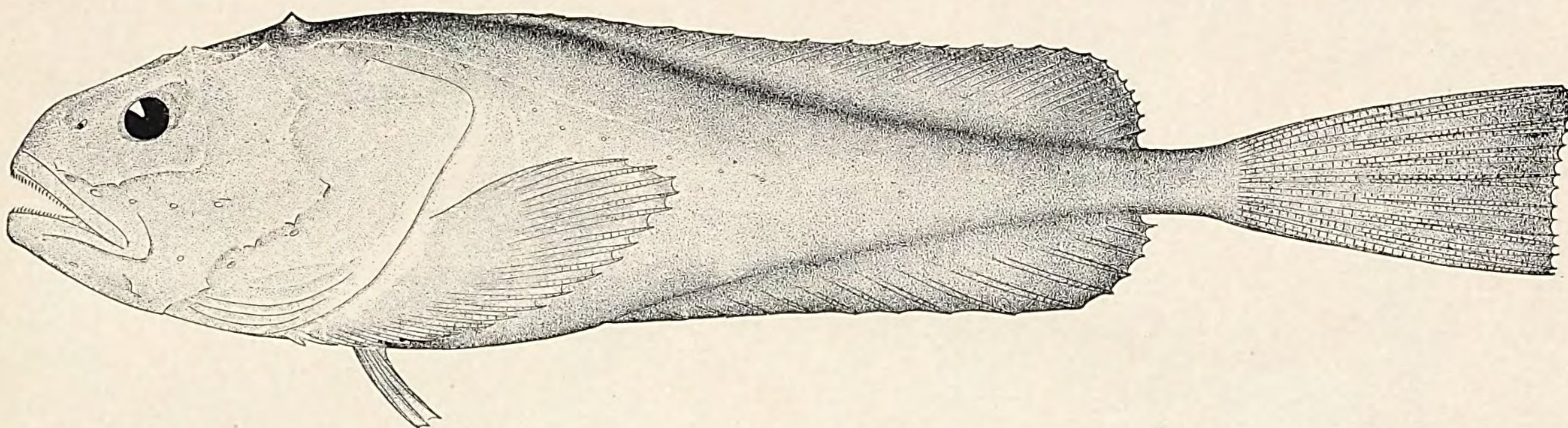
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253. PARALIPARIS COPEI. (p. 279.)
255. ARTEDIELLUS UNCINATUS. (p. 267.)

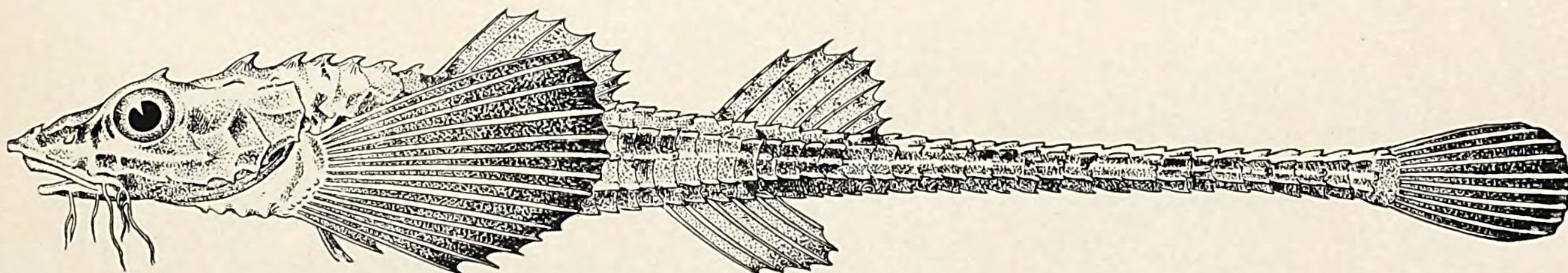
254. GYMNOLYCODES EDWARDSI. (p. 281.)
256. TRIGLOPS PINGELII. (p. 269.)



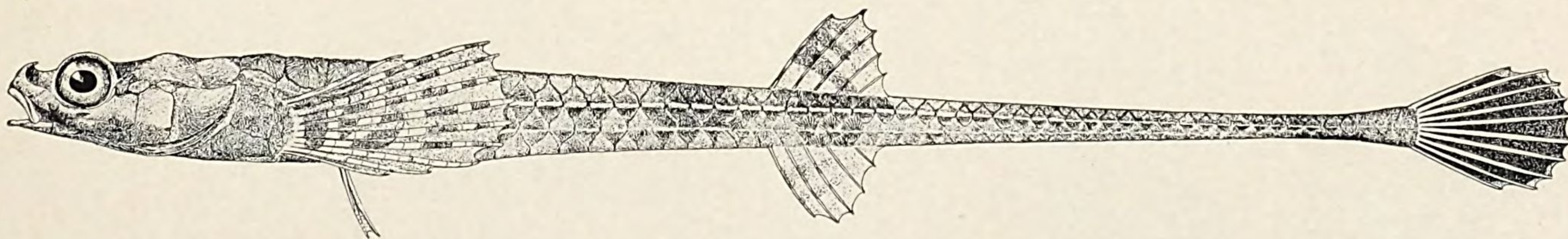
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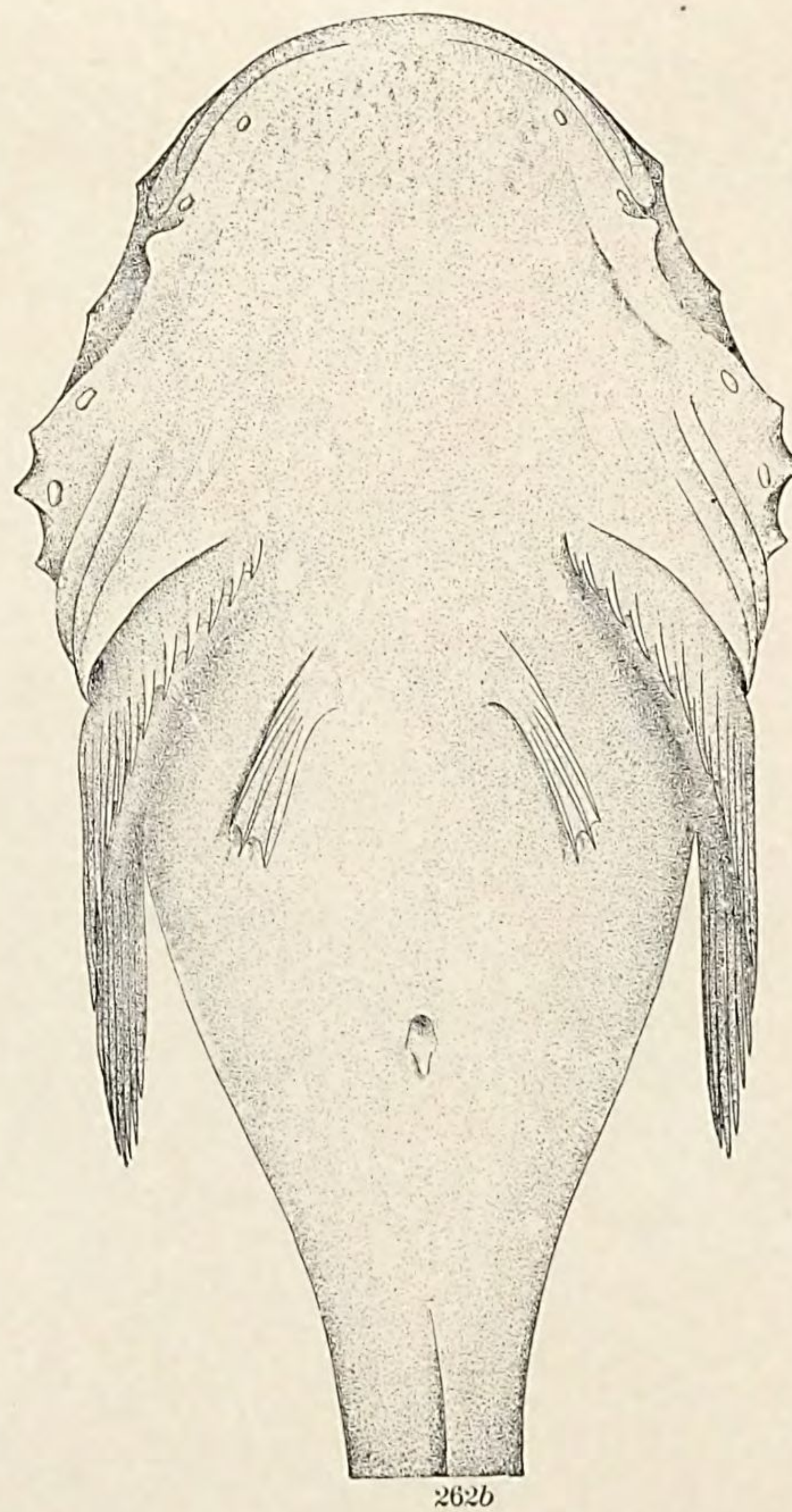
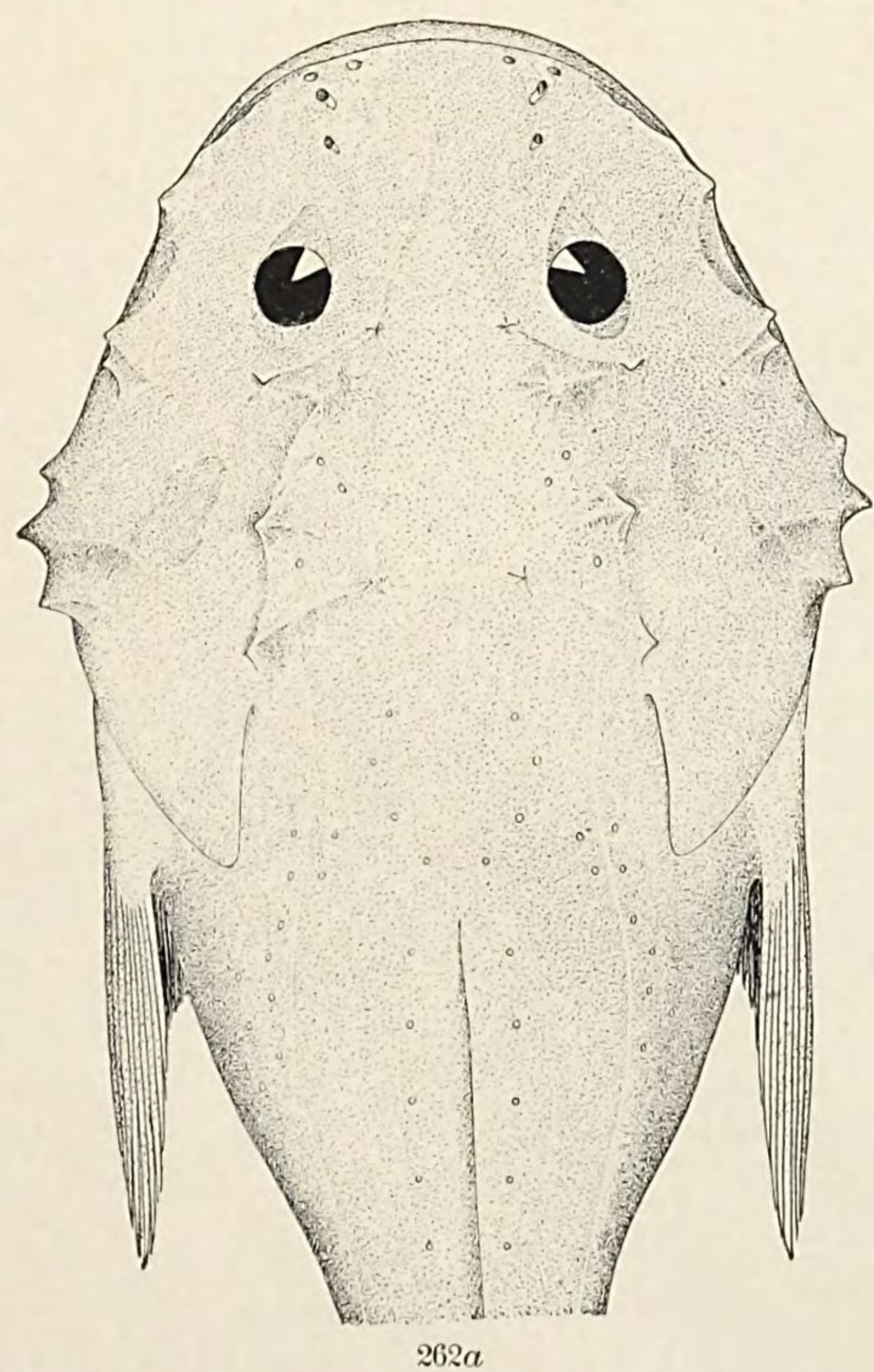
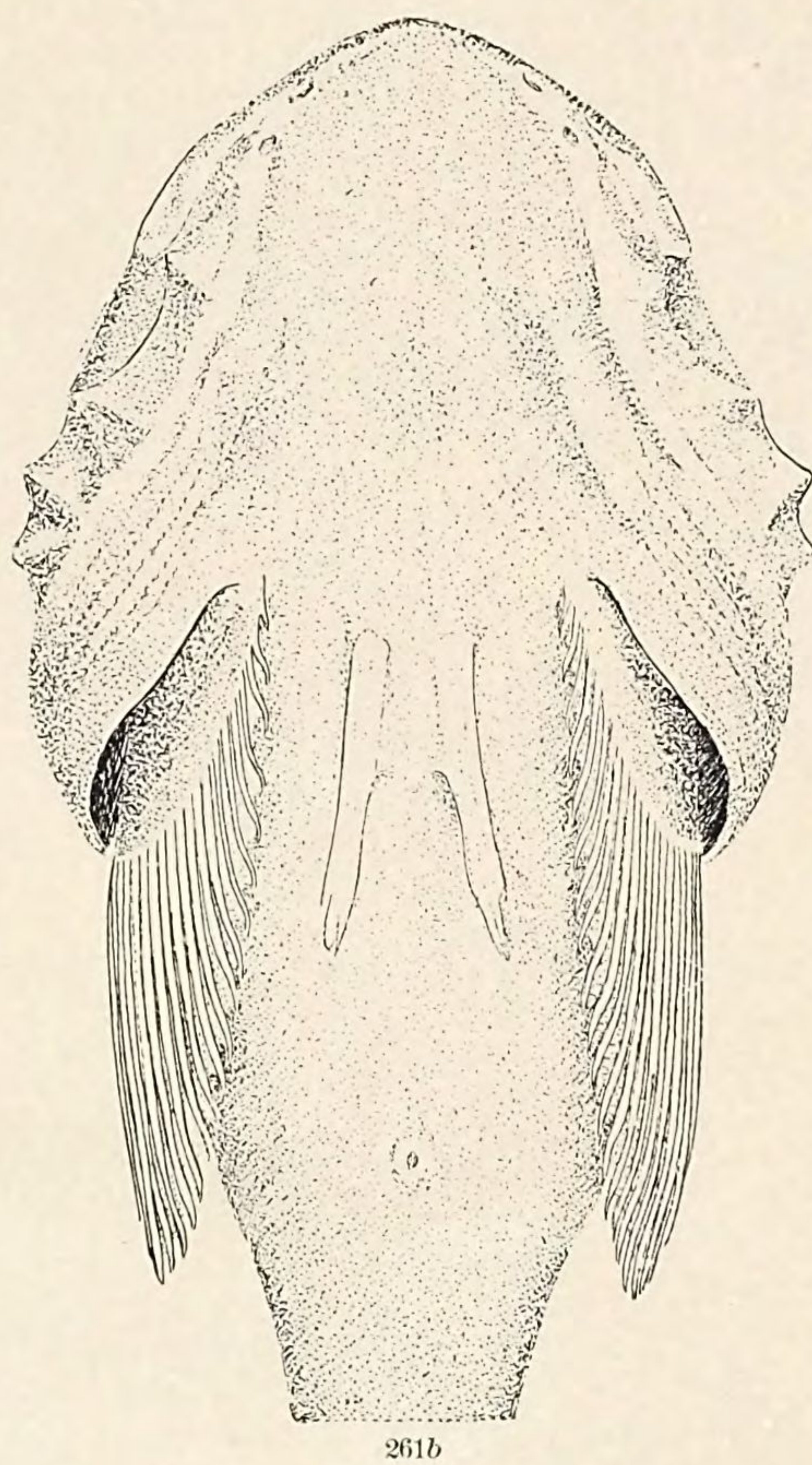
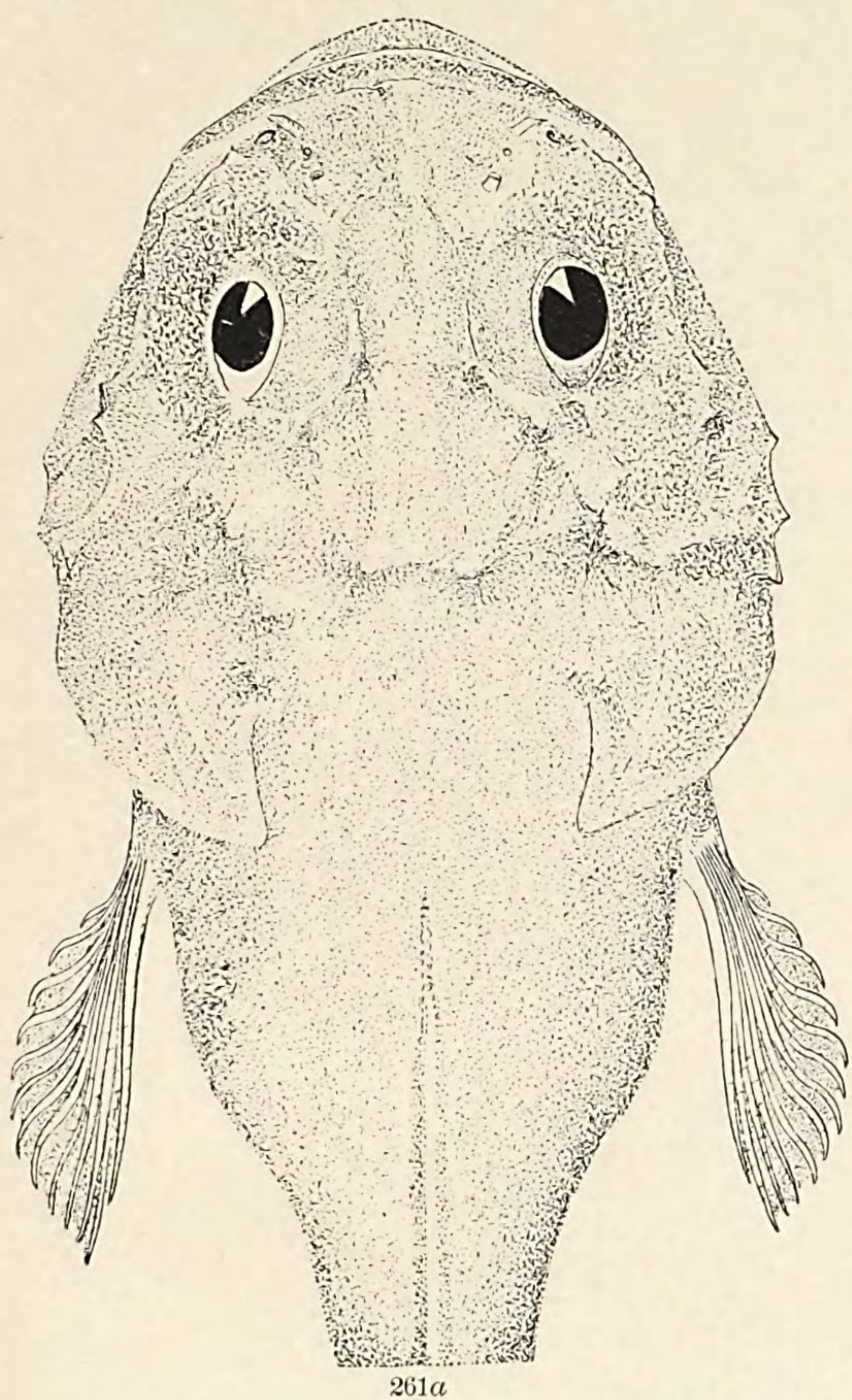
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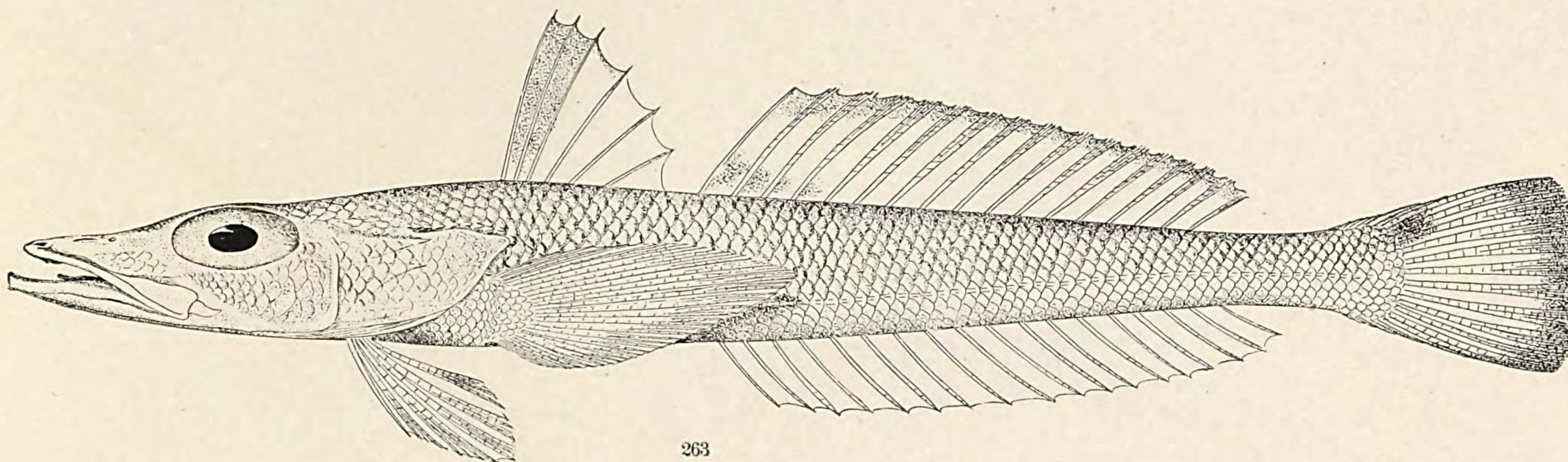
257. COTTUNCULUS MICROPS. (p. 269.)
259. PODOTHECUS DECAGONUS. (p. 282.)

258. COTTUNCULUS THOMSONII. (p. 270.)
260. ASPIDOPHOROIDES MONOPTERYGIUS. (p. 283.)

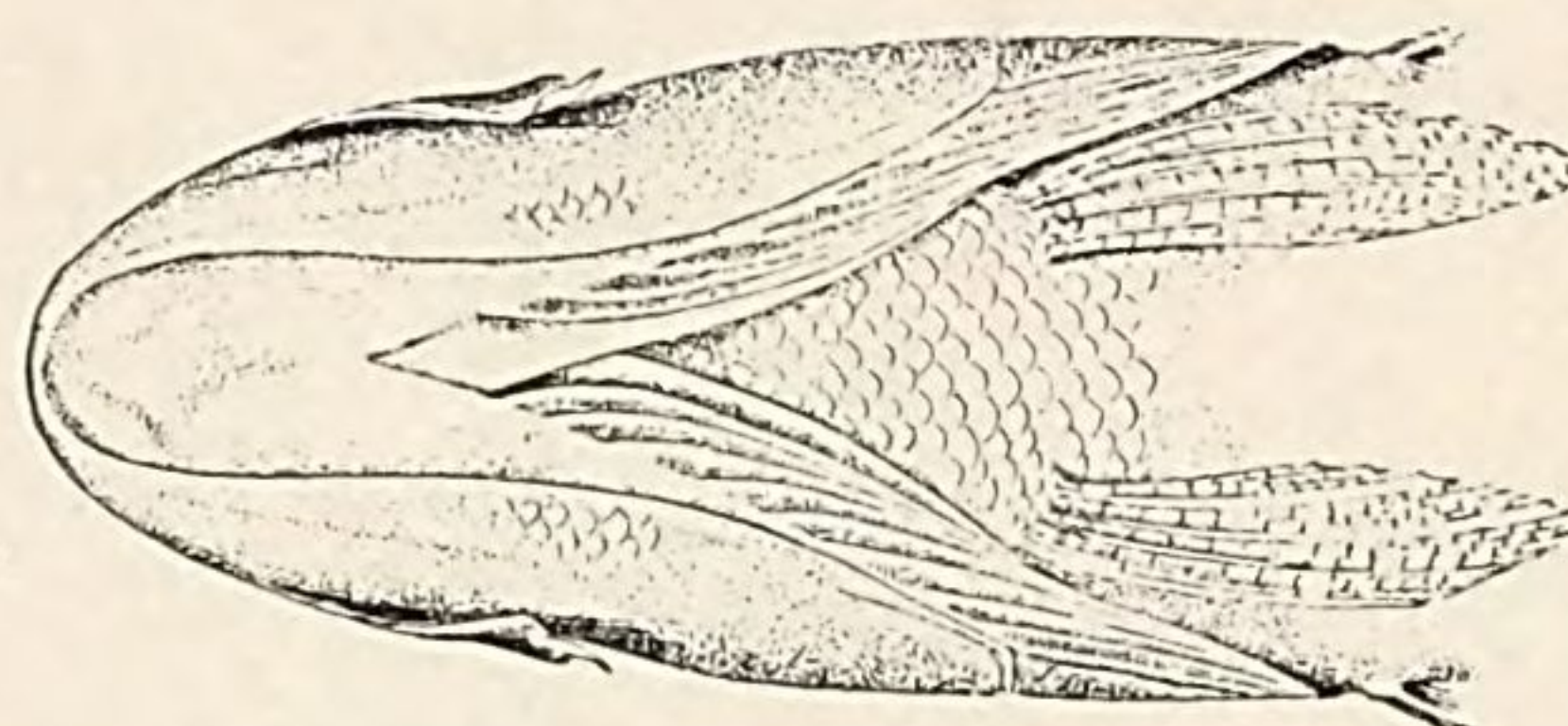
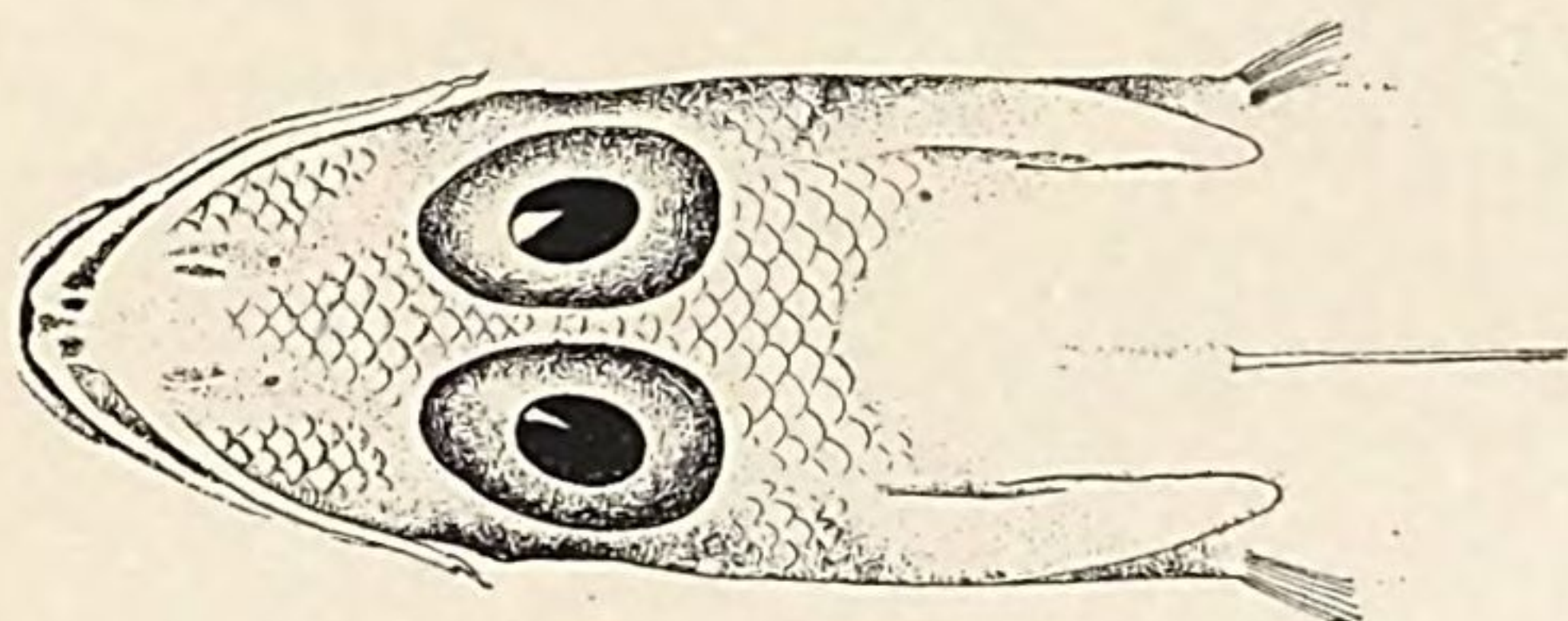


261a, b. *COTTUNCULUS MICROPS*. (p. 269.)

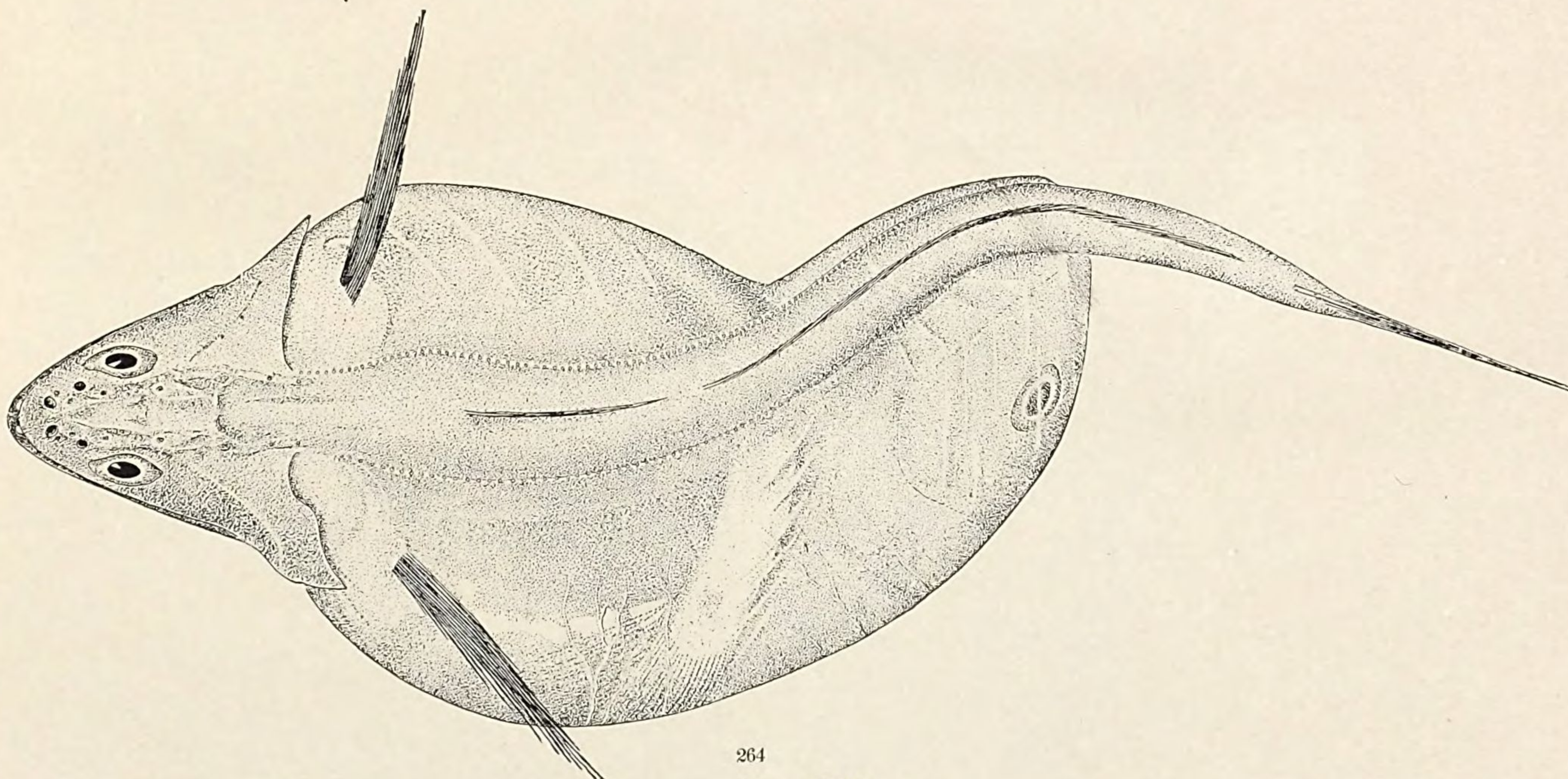
262a, b. *COTTUNCULUS THOMSONII*. (p. 270.)



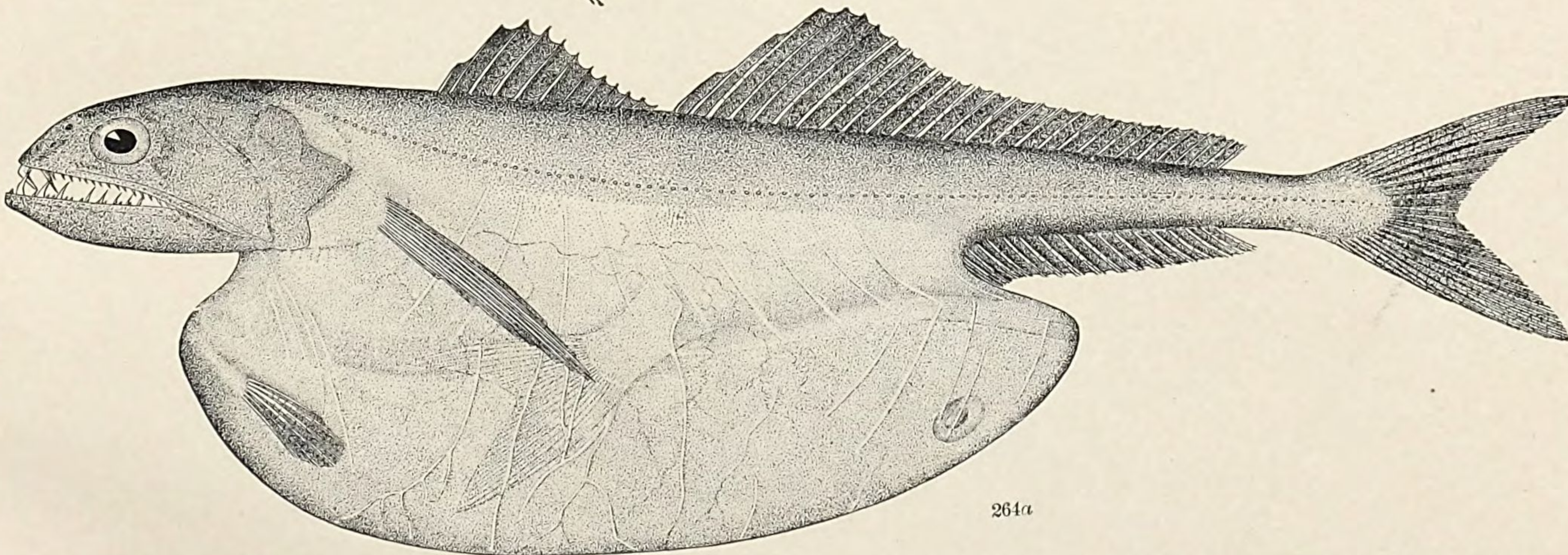
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263a



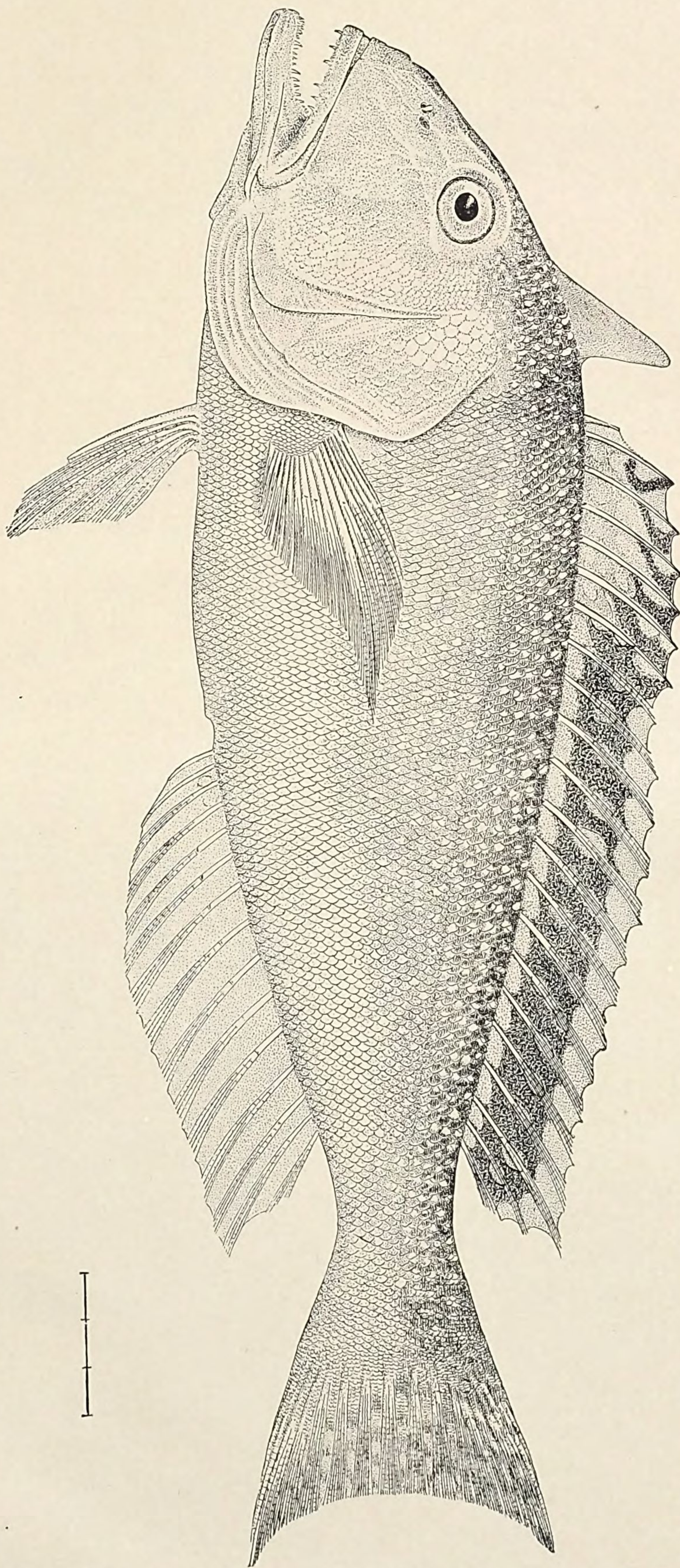
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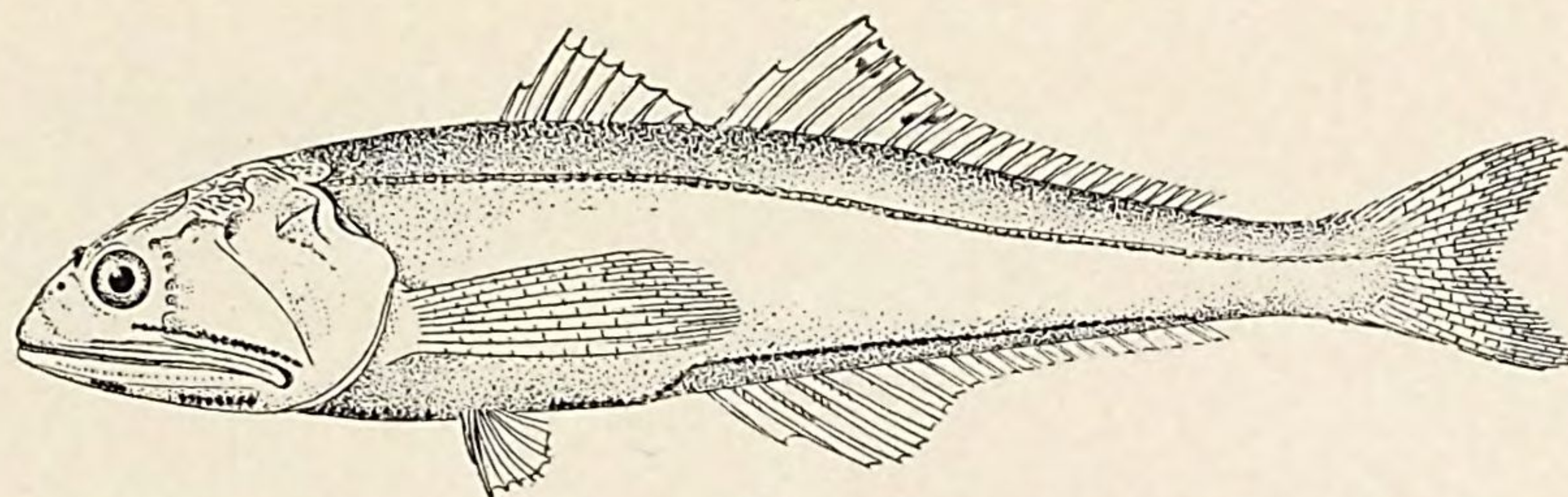
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263, 263a, b. *HYPsicOMETES Gobioides*. (p. 290.)

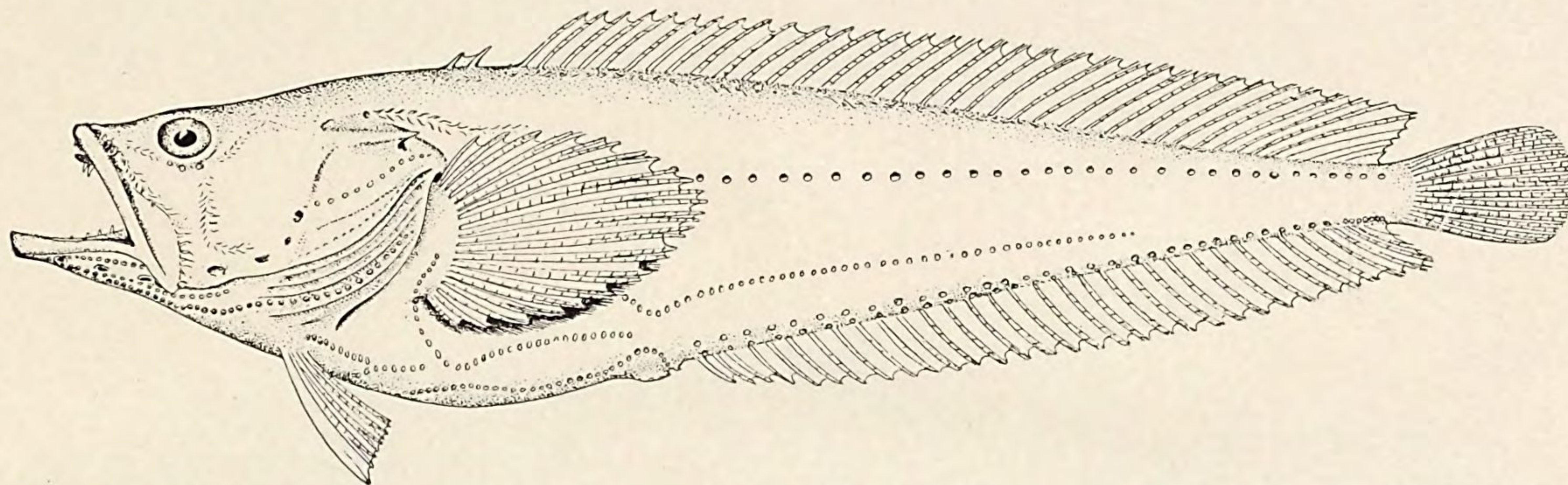
264, 264a. *CHIASMODON NIGER*. (p. 292.)



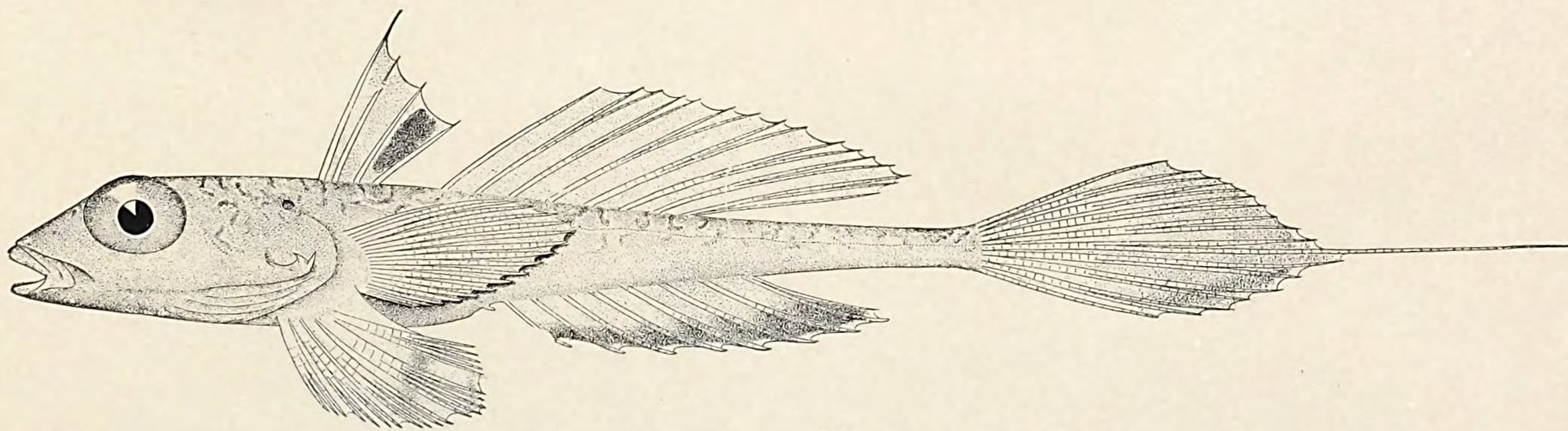
265. *LOPHOLATILUS CHAMAELEONTICEPS*. (p. 284.)



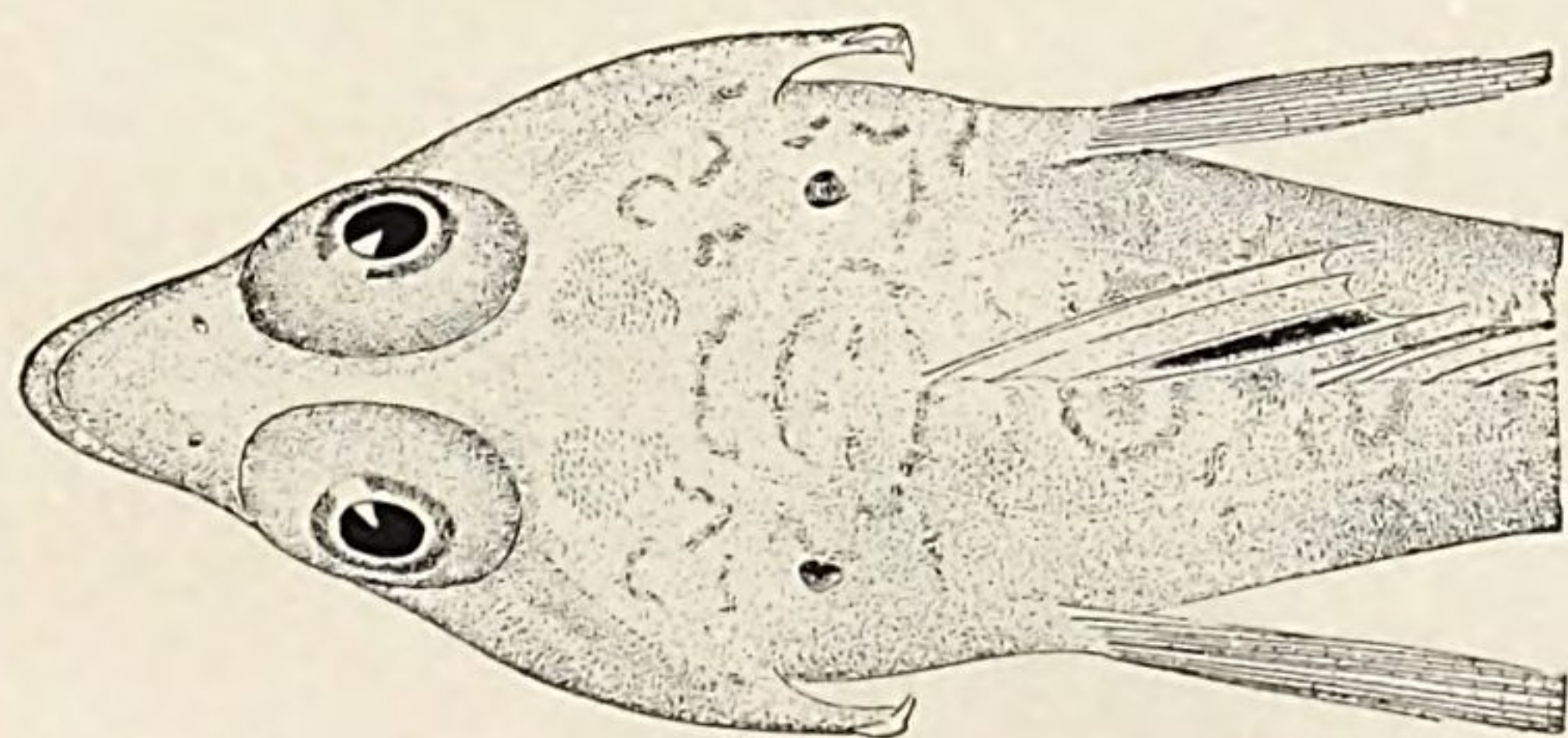
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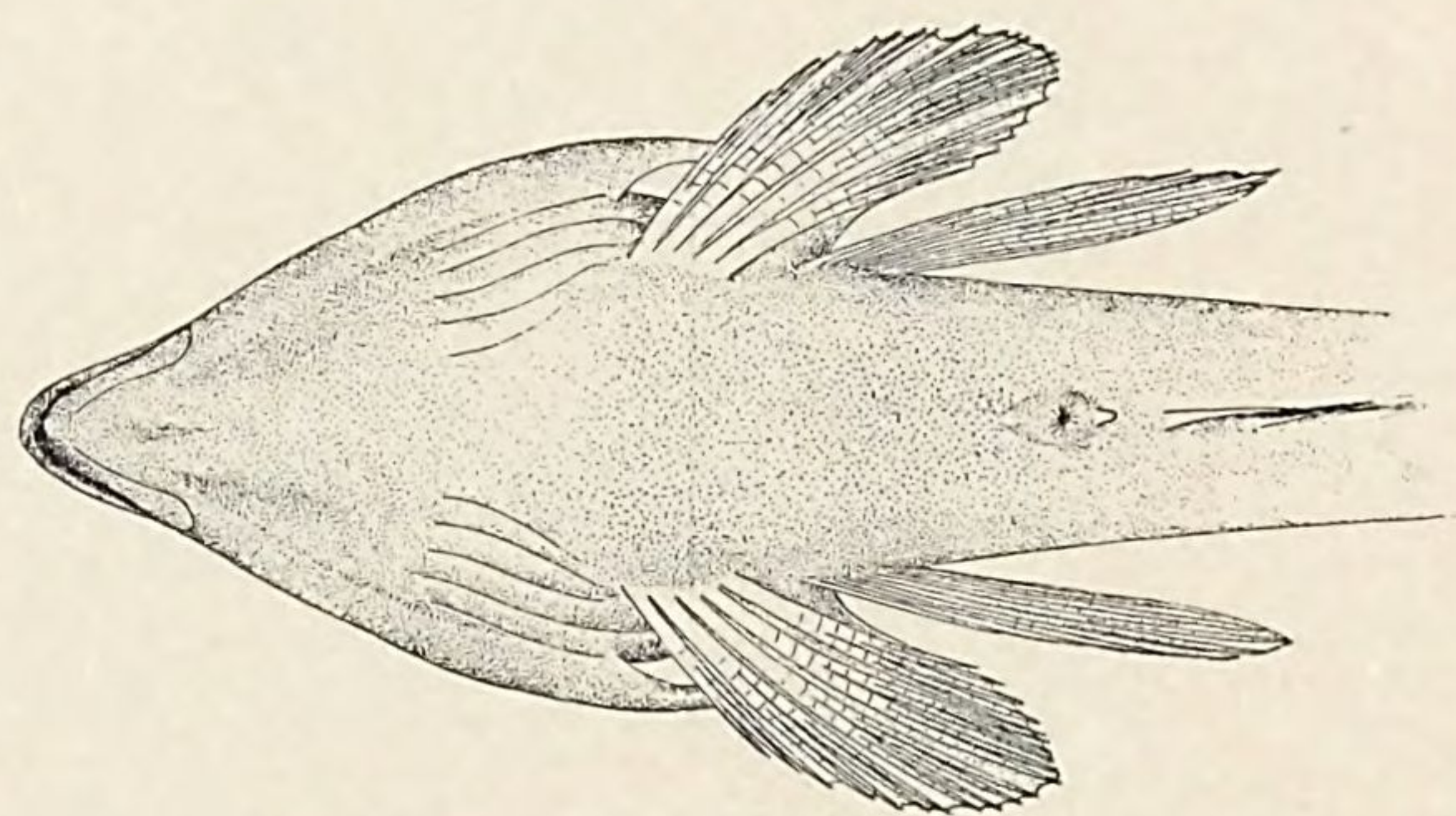
267



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268a

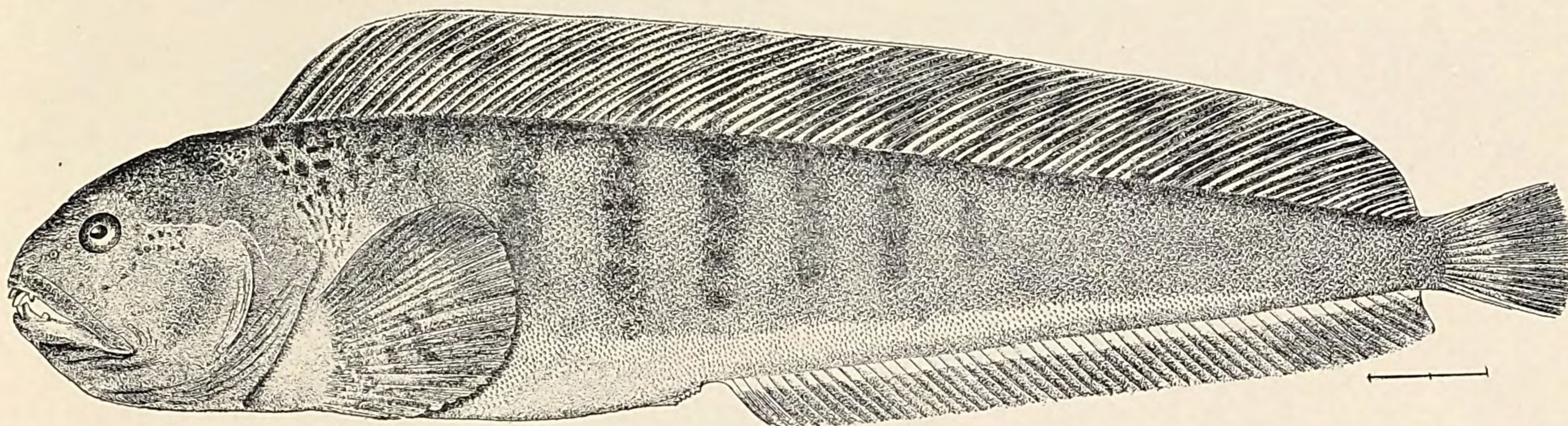


268b

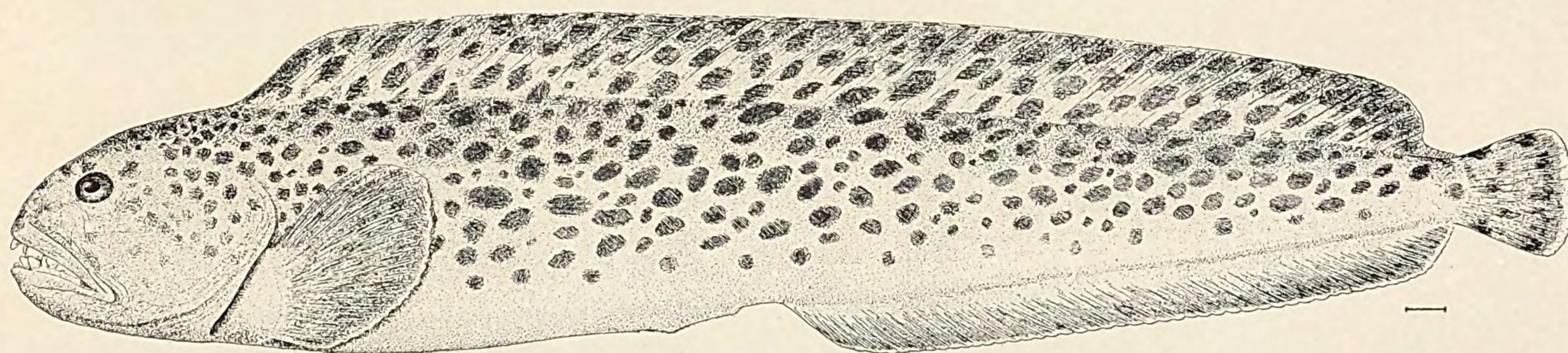
266. *PSEUDOSCOPELUS SCRIPTUS*. (p. 292.)

267. *PORICHTHYS POROSISSIMUS*. (p. 294.)

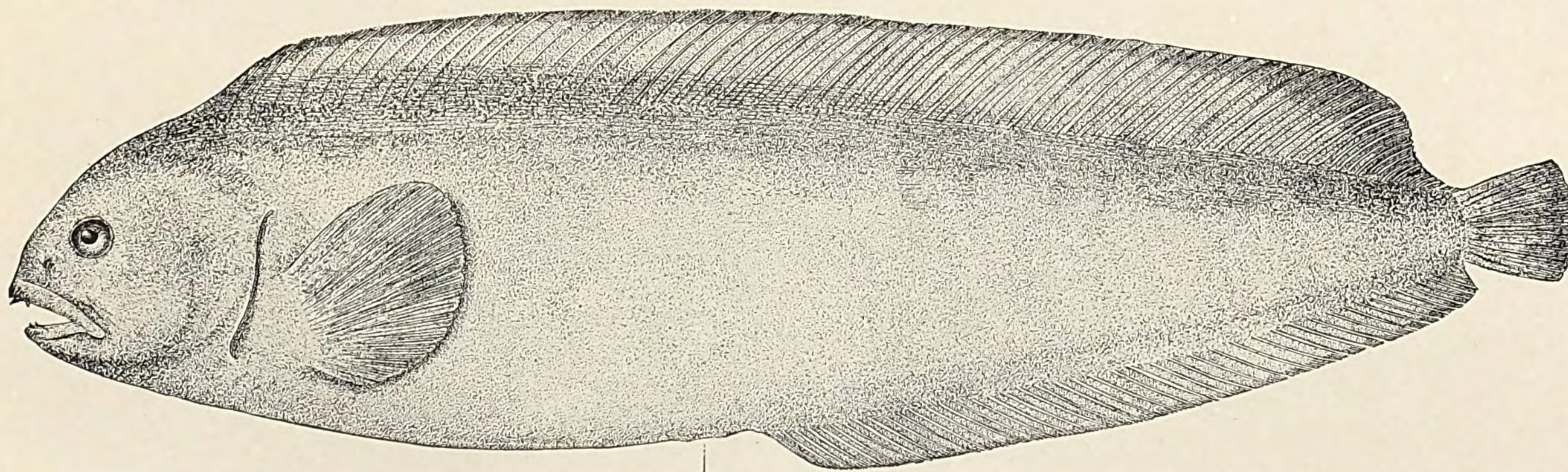
268, 268a, b. *CALLIONYMUS HIMANTOPHORUS*. (p. 296.)



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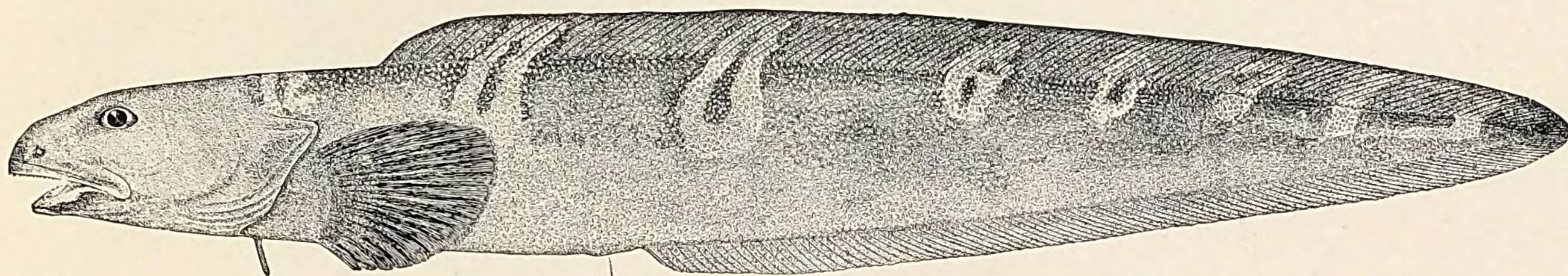


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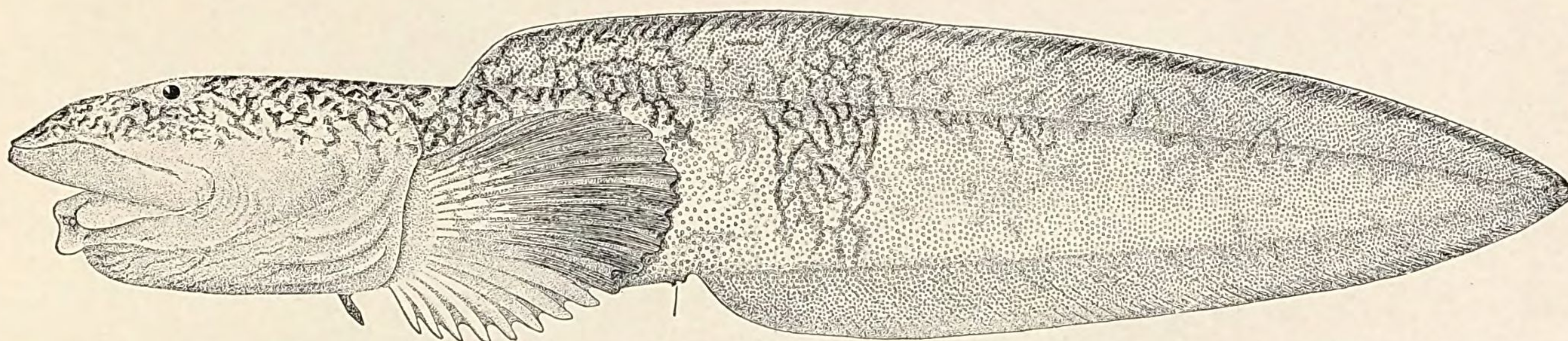
269. ANARRHICHAS LUPUS. (p. 299.)

270. ANARRHICHAS MINOR. (p. 301.)

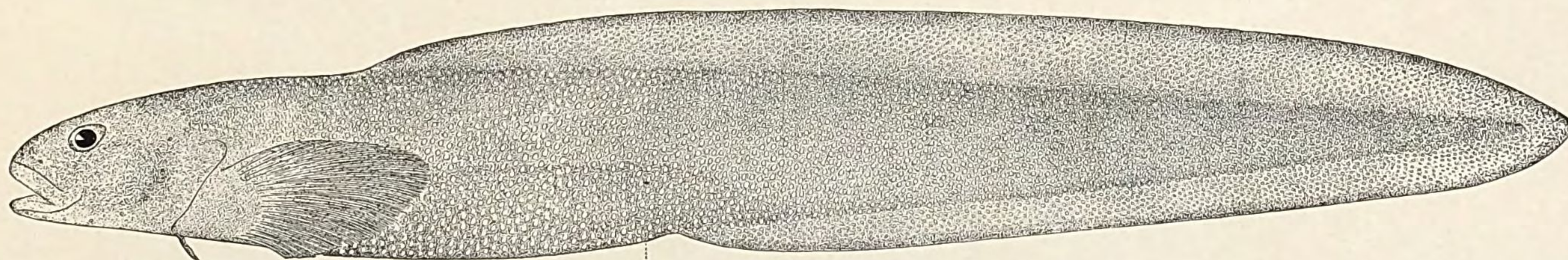
271. ANARRHICHAS LATIFRONS. (p. 301.)



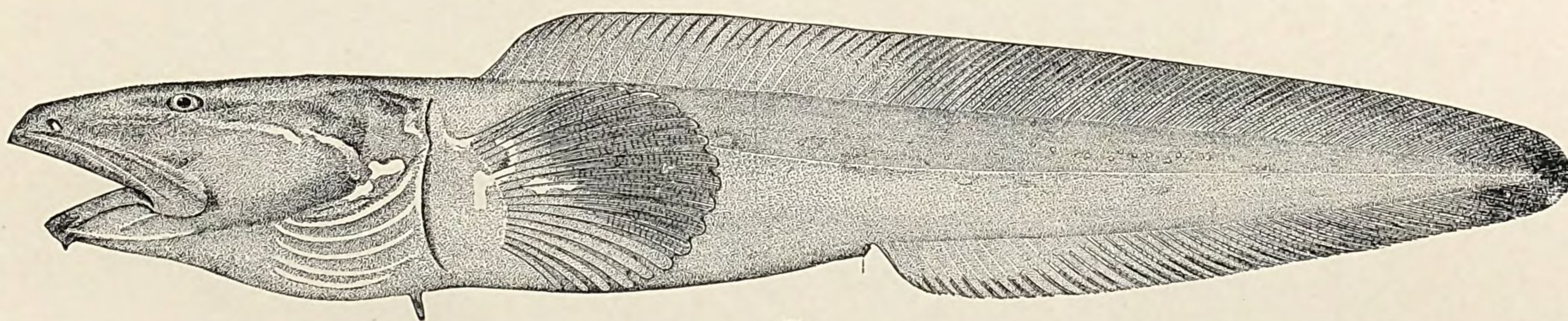
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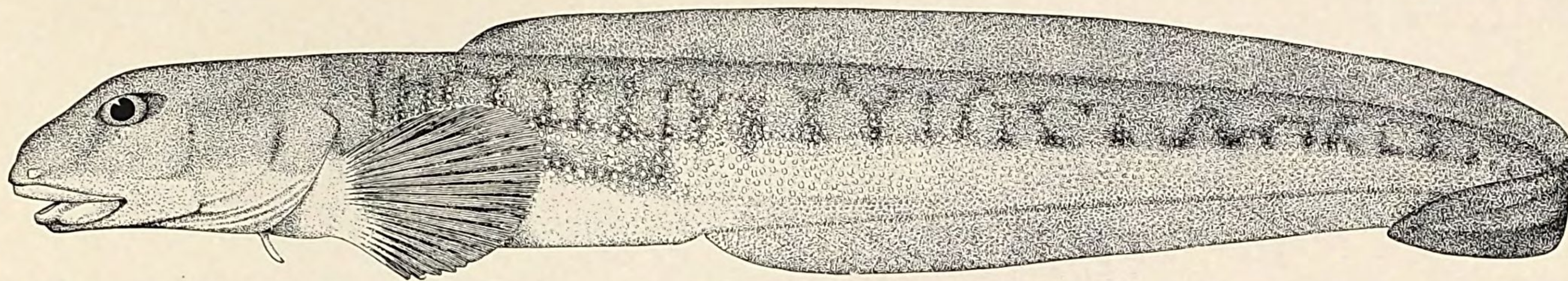
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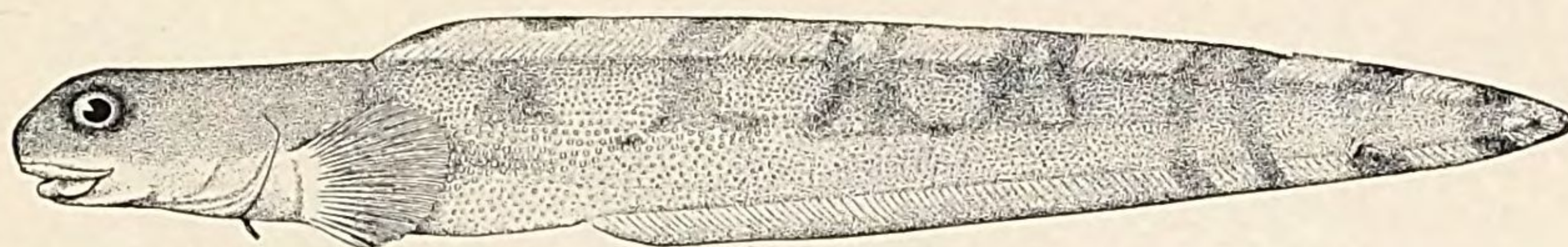
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272. LYCODES ESMARKII. (p. 303.)
274. LYCODES FRIGIDUS. (p. 305.)

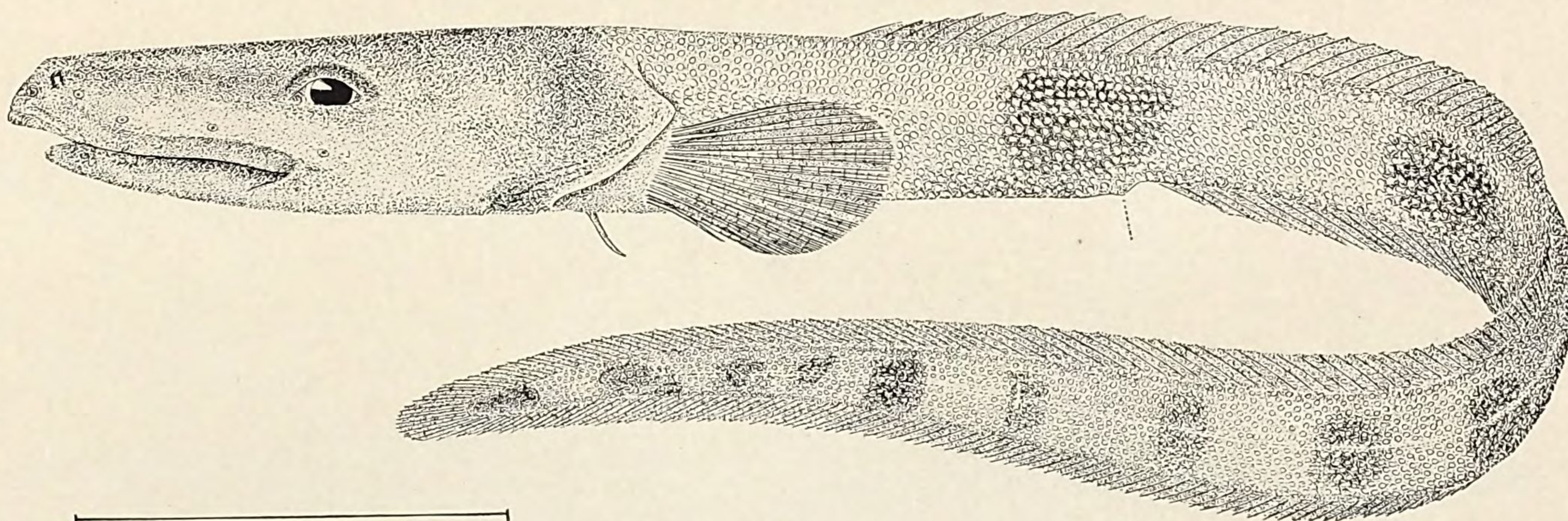
273. LYCODES RETICULATUS. (p. 305.)
275. LYCODES MUCOSUS. (p. 306.)



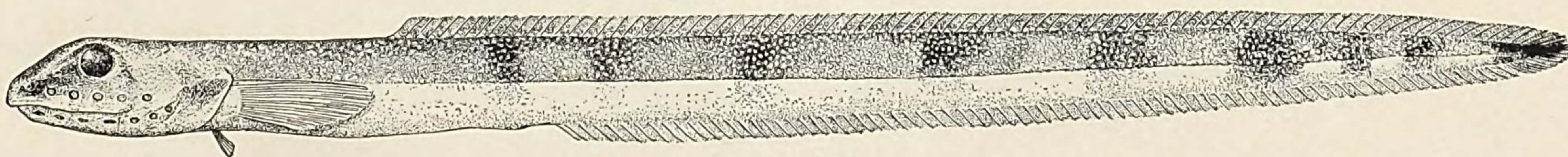
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276a



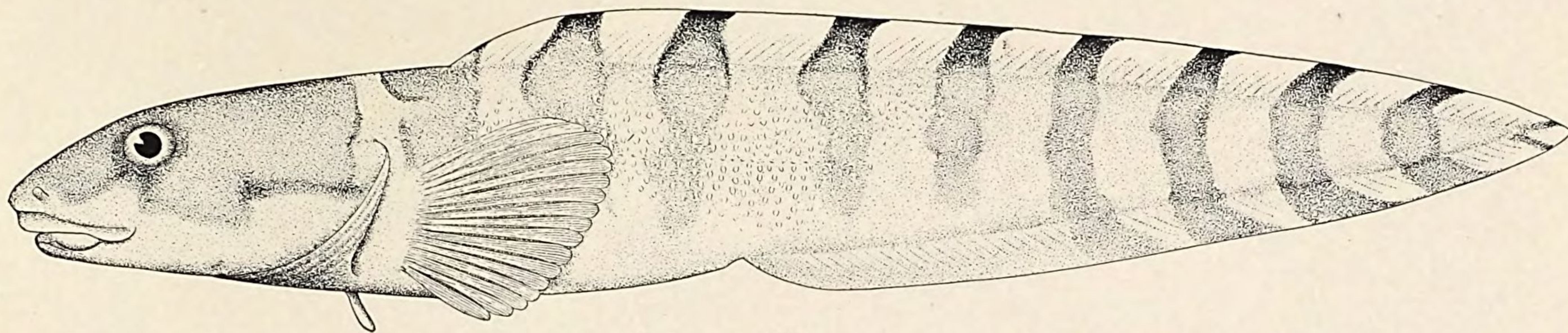
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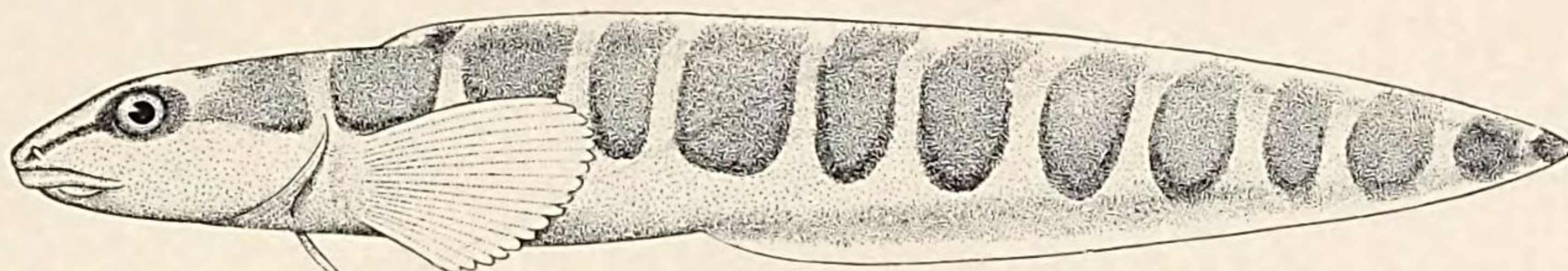
277a

276, 276a. LYCODES ZOARCHUS. (p. 308.)

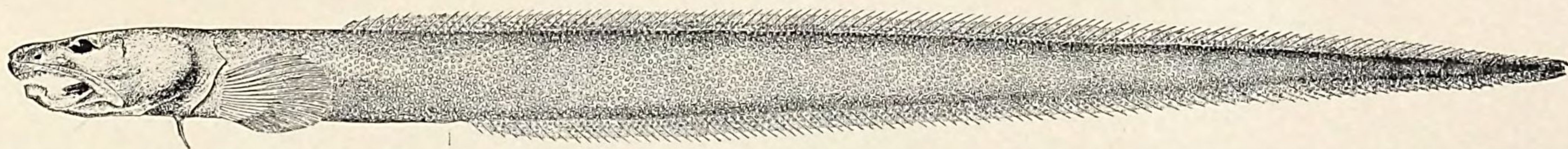
277, 277a. LYCENCHELYS VERRILLII. (p. 309.)



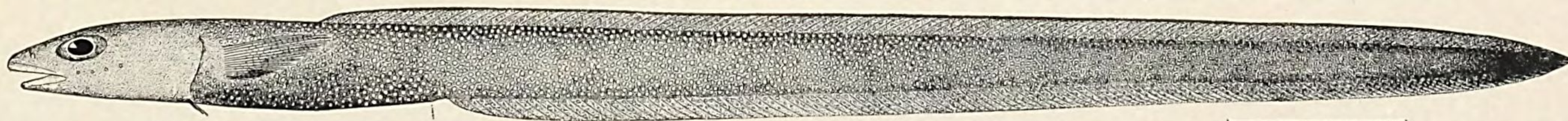
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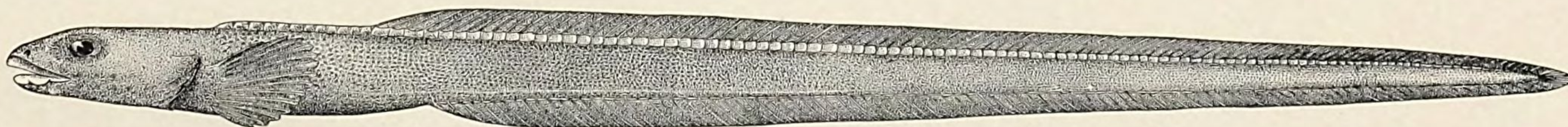
278a



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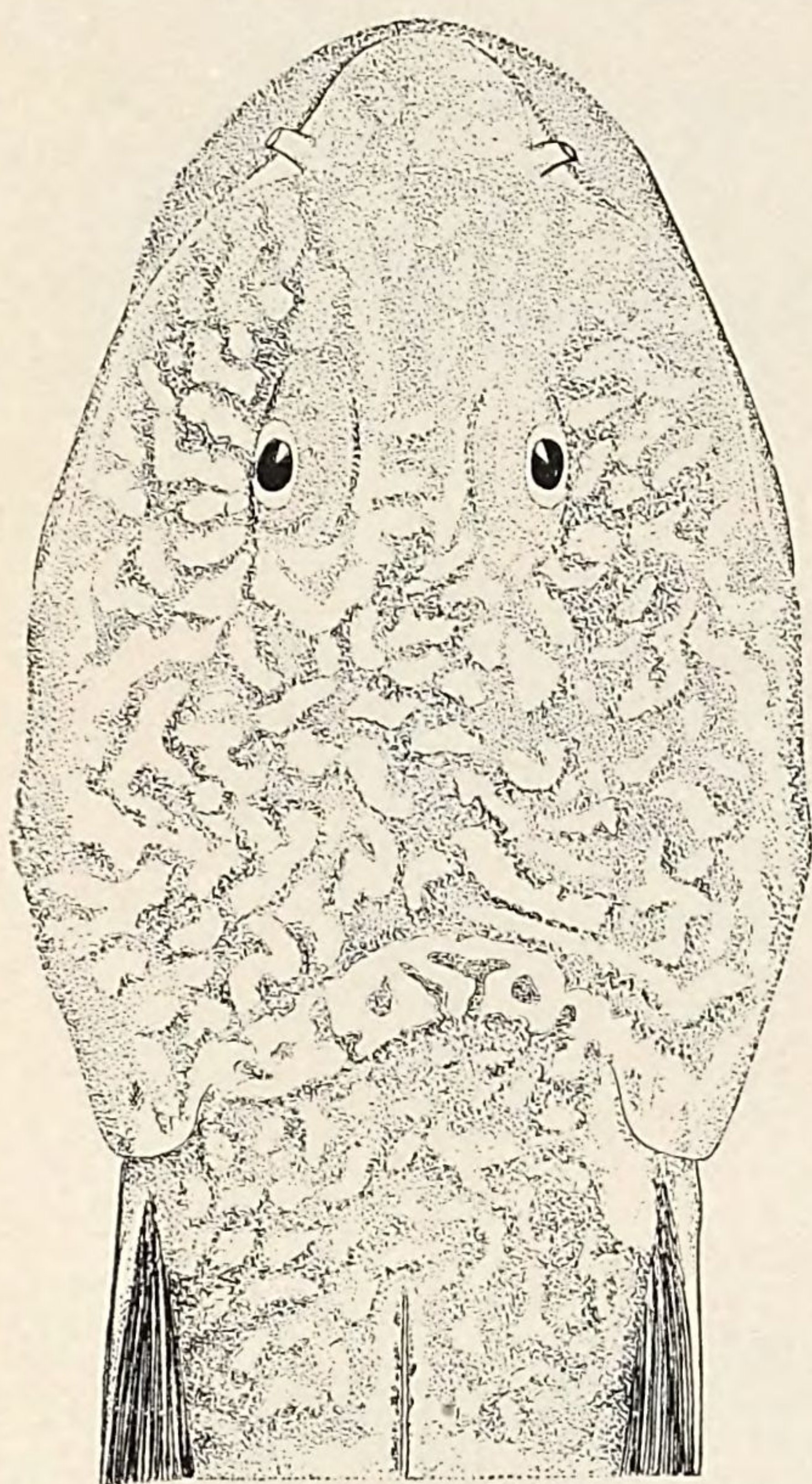


279a

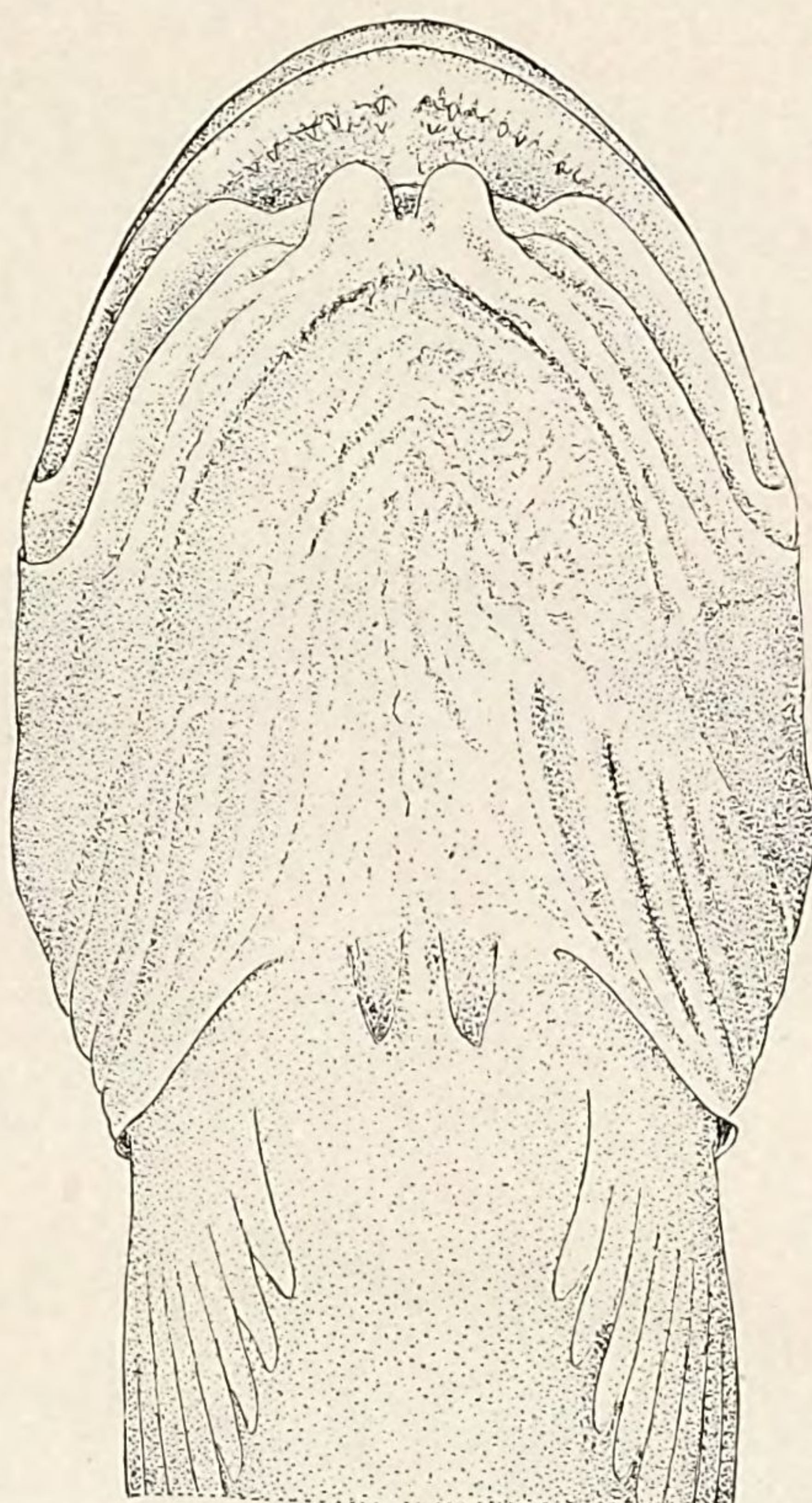


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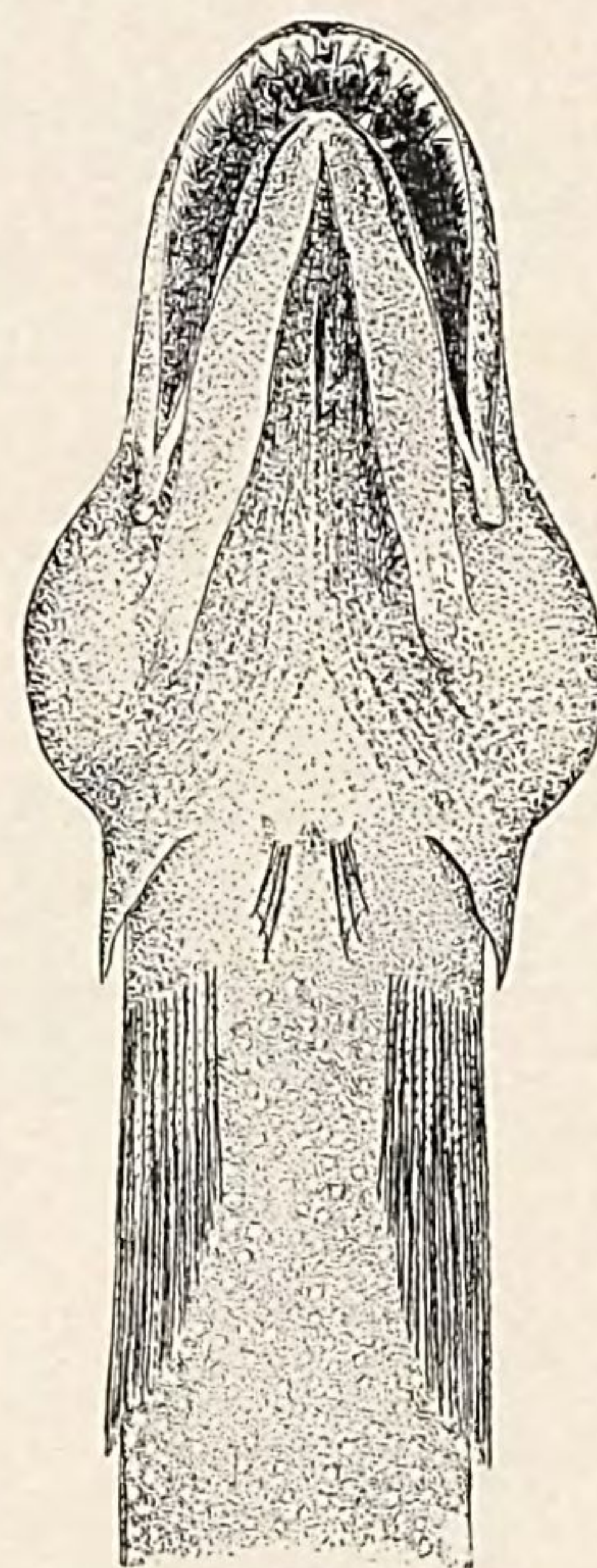
278, 278a. *LYCODES PERSPICILLUM*. (p. 307.)
280. *LYCODONUS MIRABILIS*. (p. 312.)
279, 279a. *LYCENCHELYS PAXILLUS*. (p. 311.)



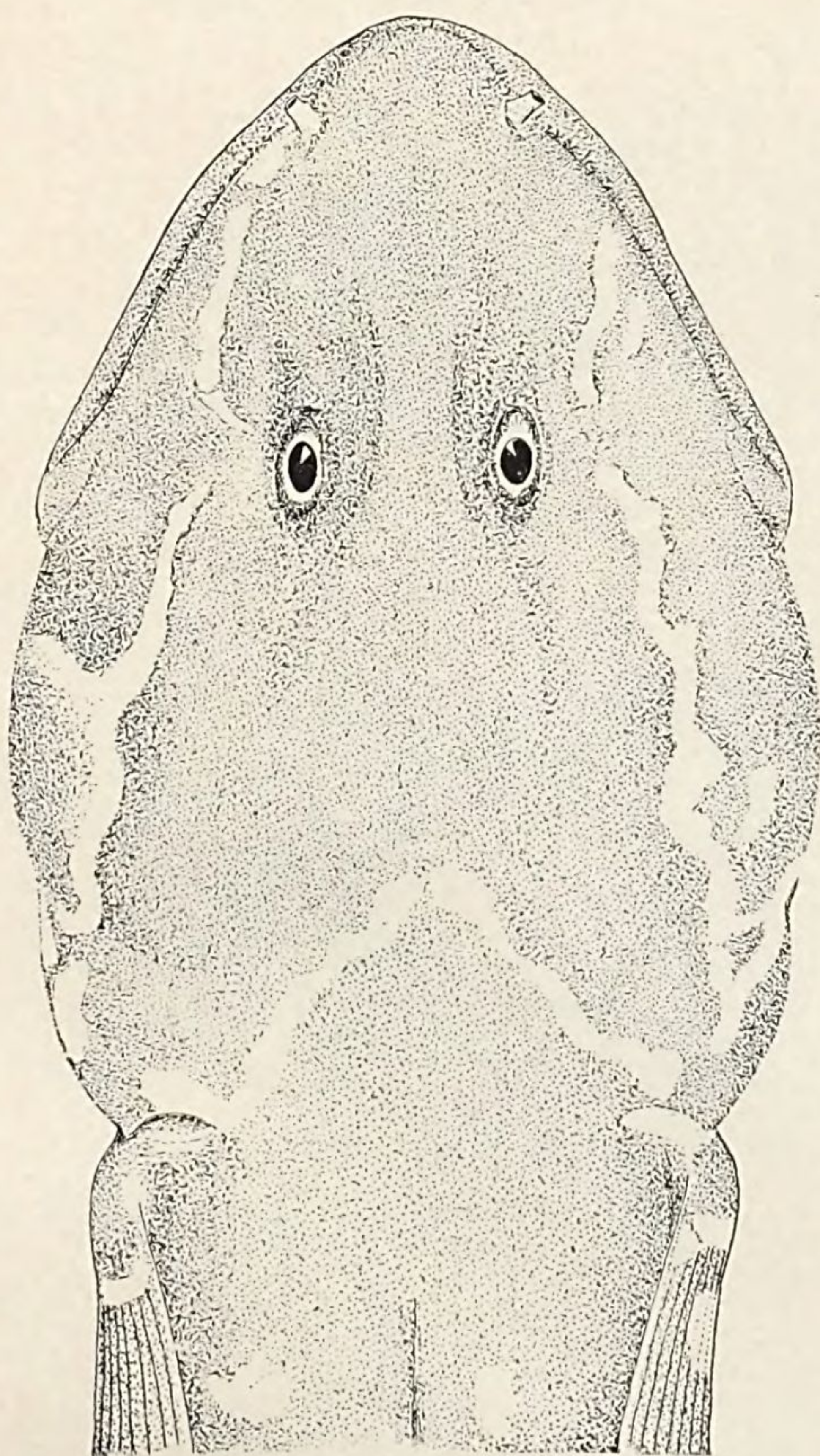
281a



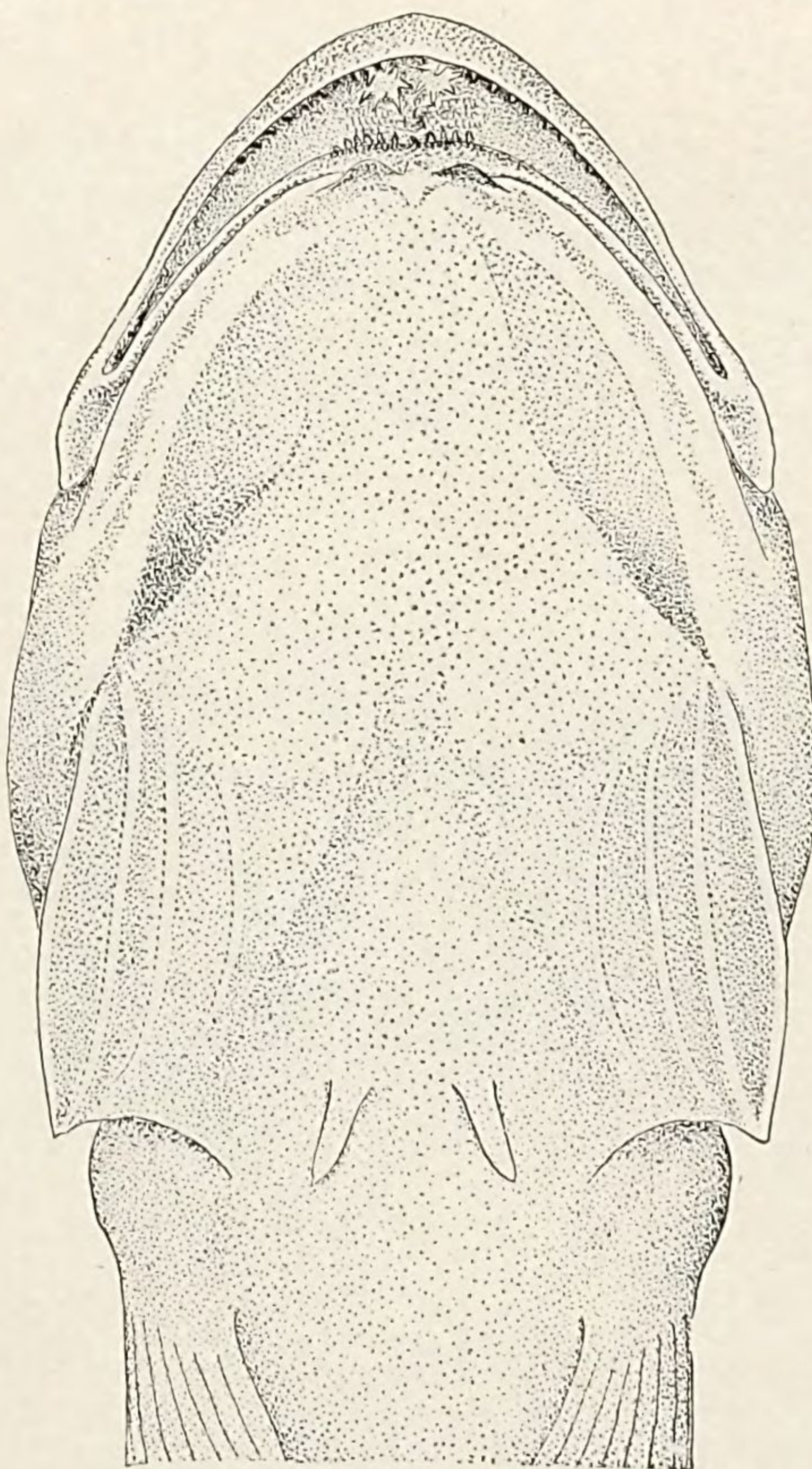
281b



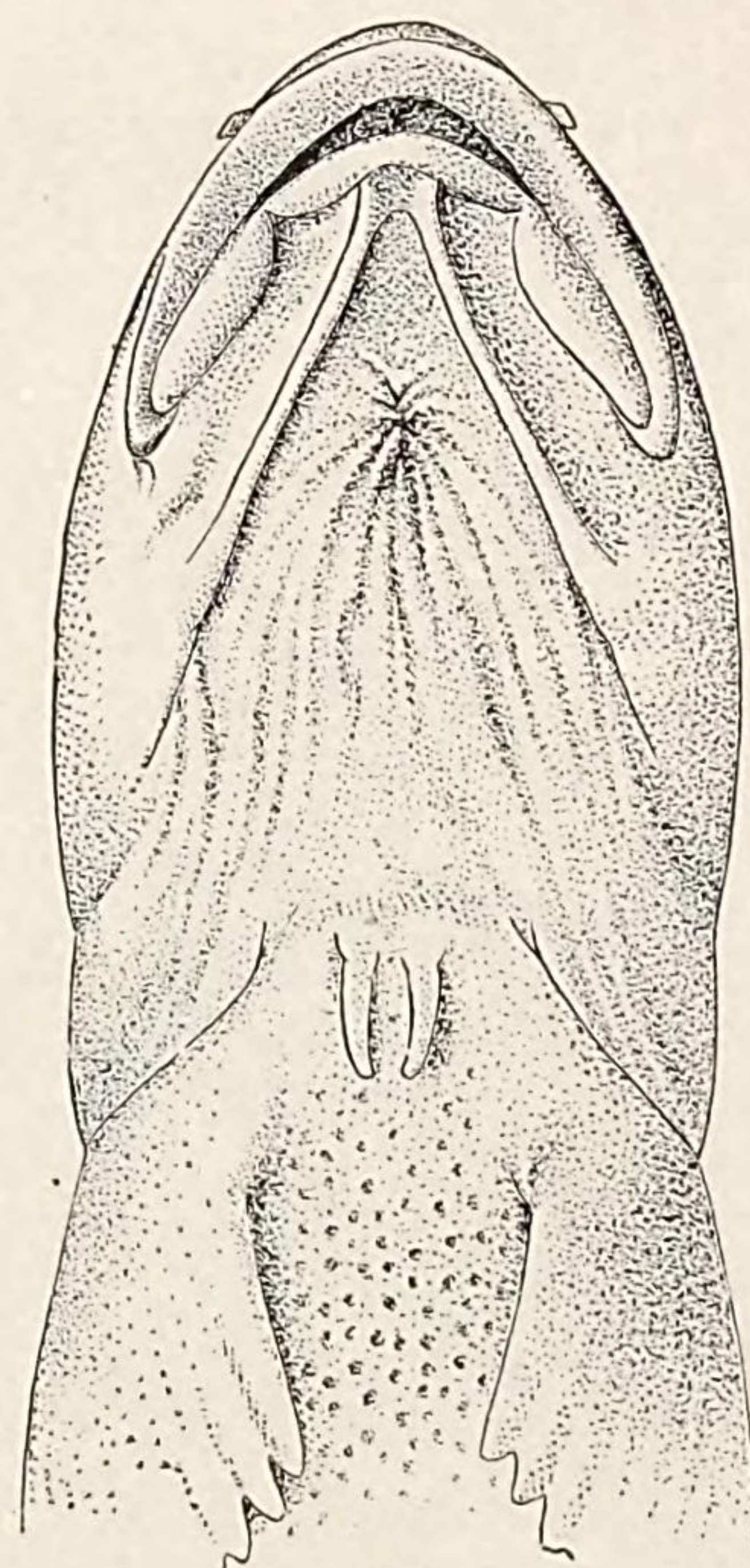
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283a



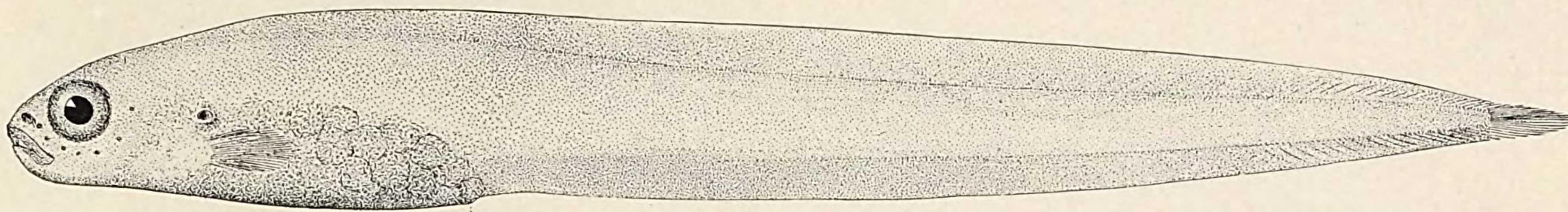
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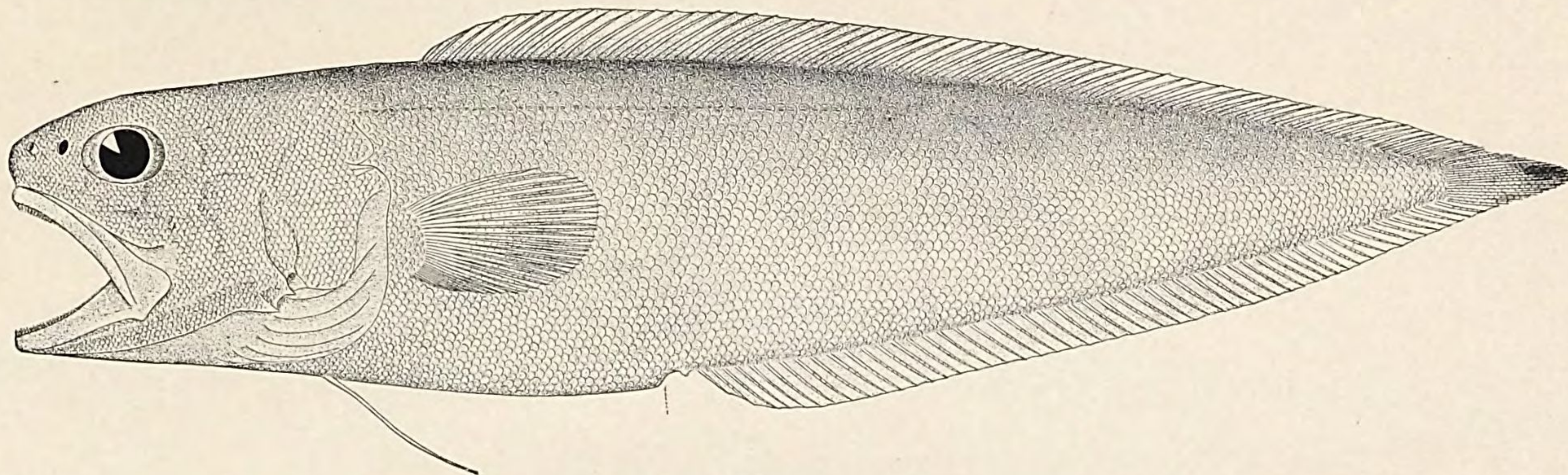
283c

281a, b. *LYCODES RETICULATUS*. (p. 305.)
283a, b. *LYCODES MUCOSUS*. (p. 306.)

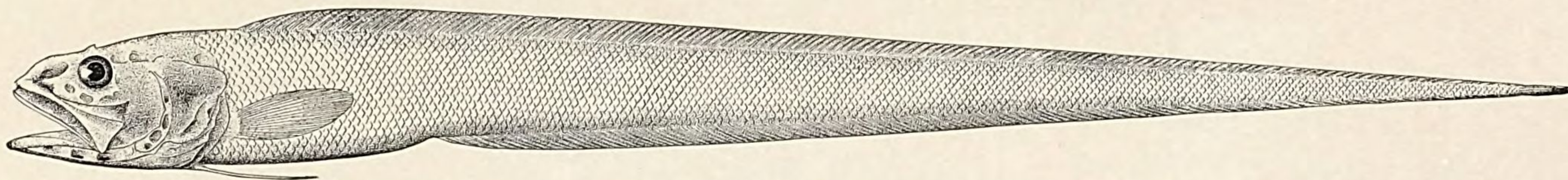
282. *LYCENCHELYS PAXILLUS*. (p. 311.)
283c. *LYCODES ZOARCHUS*. (p. 308.)



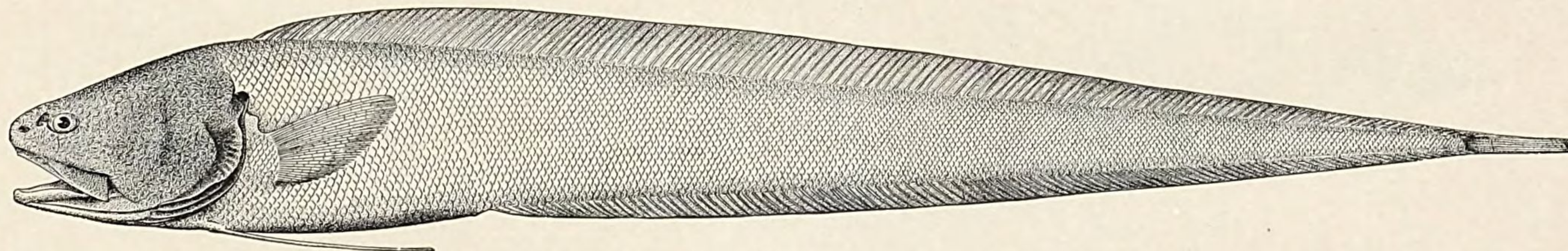
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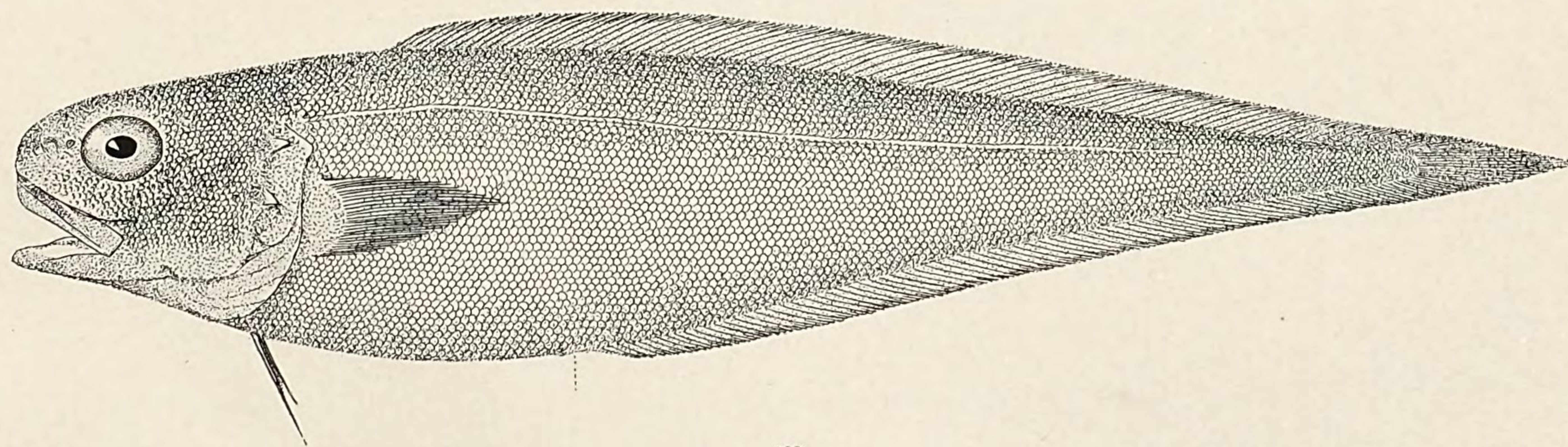
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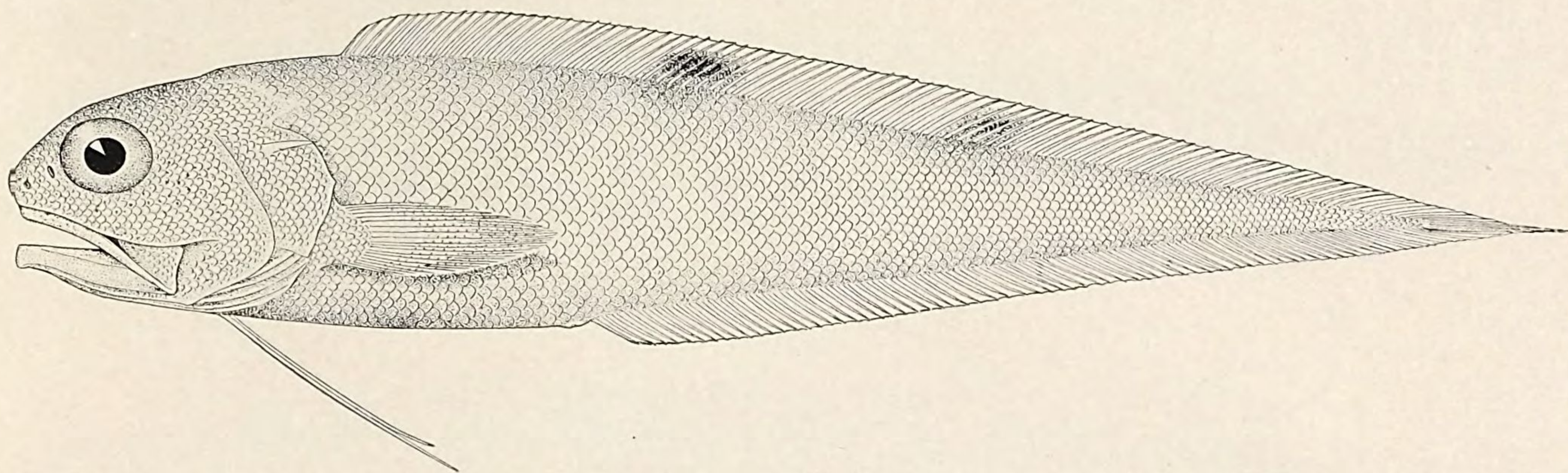
284. MELANOSTIGMA GELATINOSUM. (p. 314.)

286. BASSOZETUS CATENA. (p. 323.)

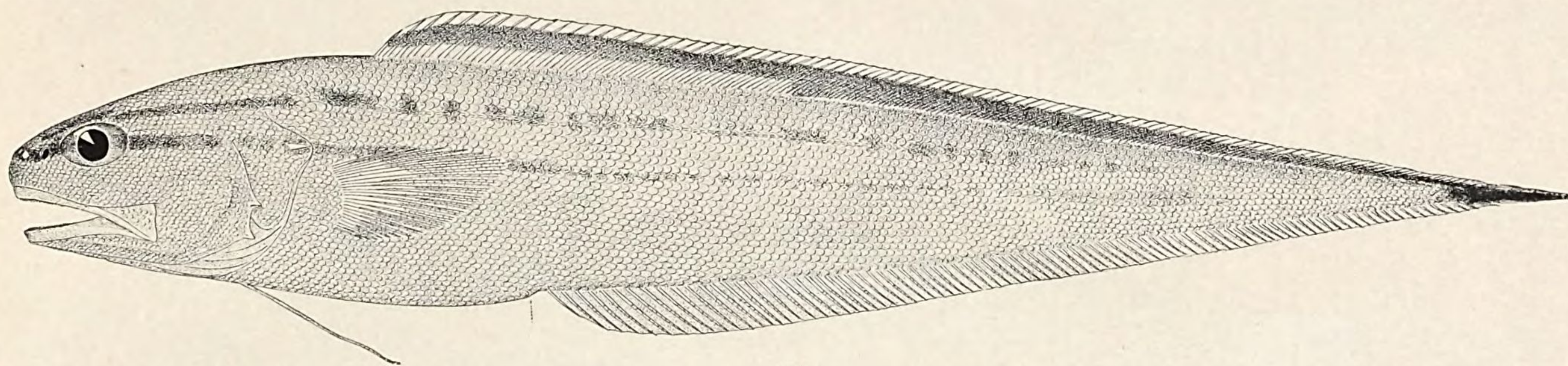
285. DICROMITA AGASSIZII. (p. 319.)

287. BASSOZETUS NORMALIS. (p. 322.)

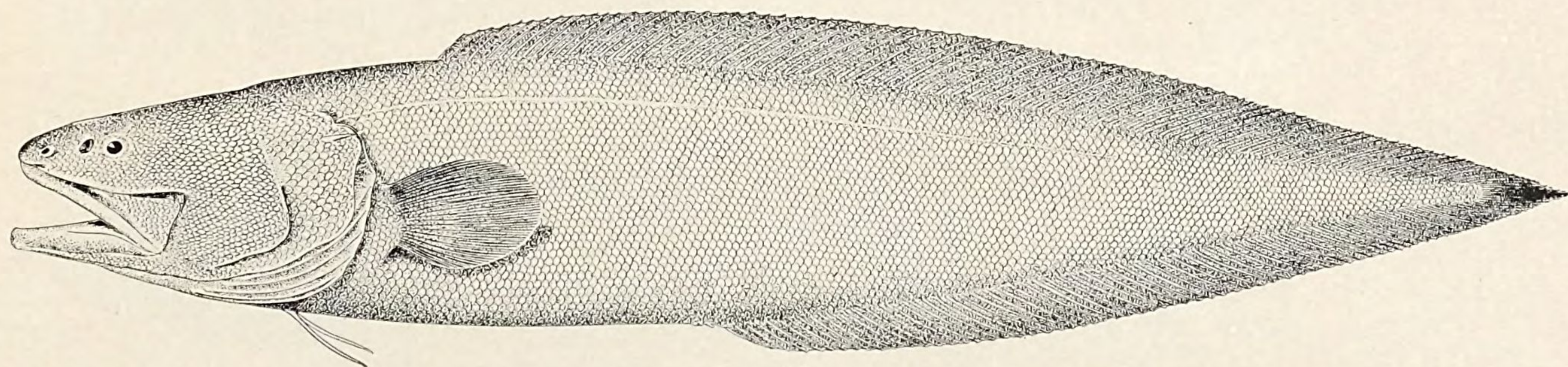
288. BENTHOCOMETES ROBUSTUS. (p. 327.)



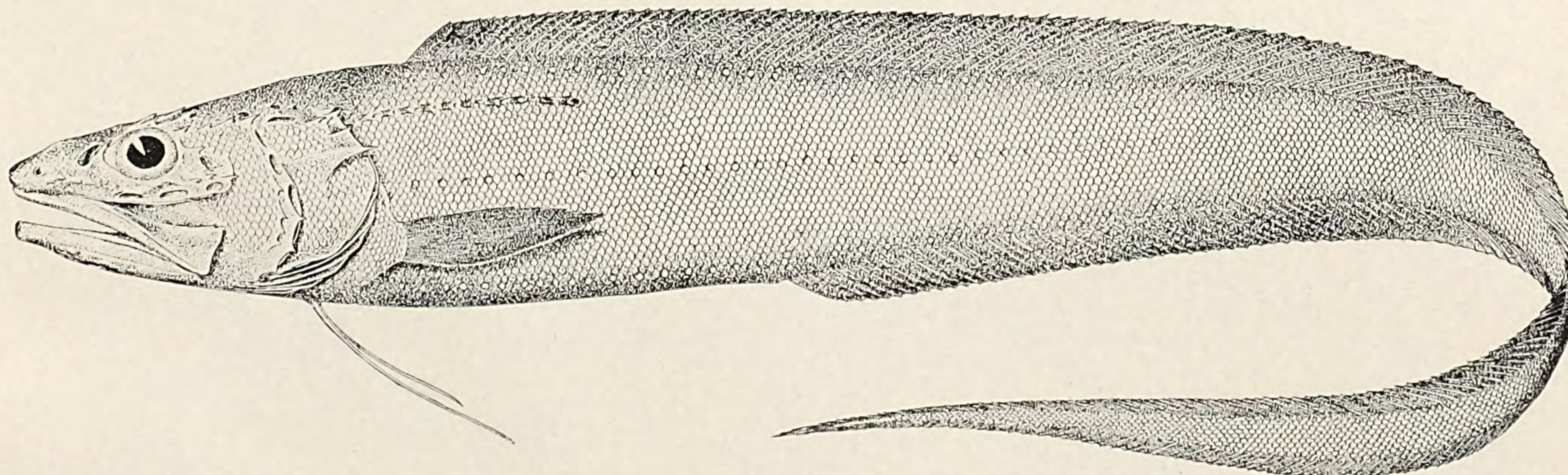
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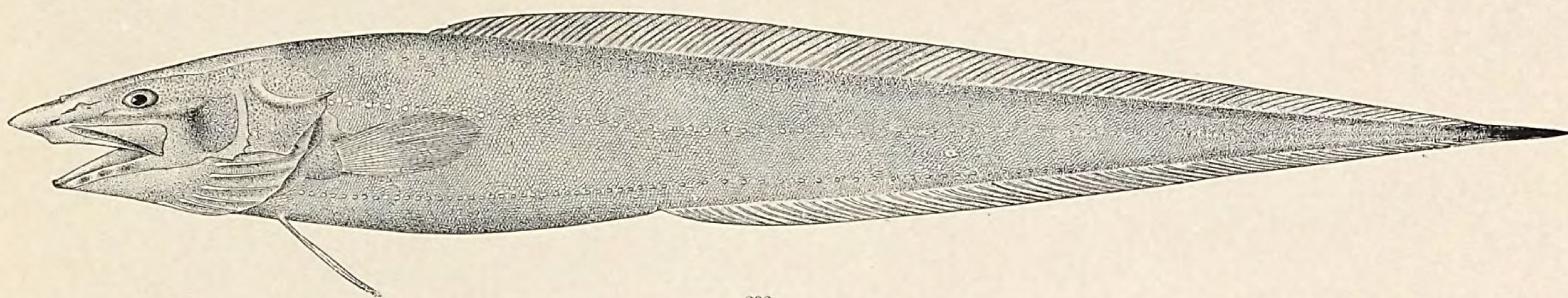
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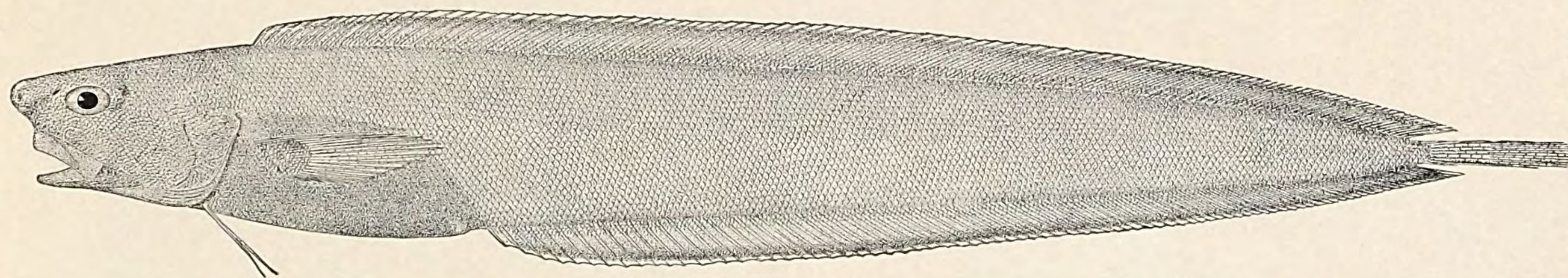
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289. NEOBYTHITES GILLII. (p. 325.)
291. BASSOGIGAS GILLII. (p. 328.)

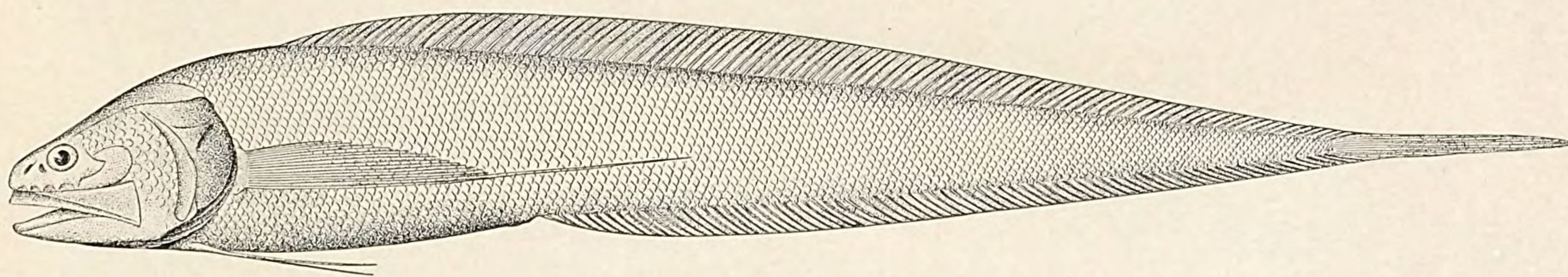
290. NEOBYTHITES MARGINATUS. (p. 326.)
292. POROGADUS MILES. (p. 334.)



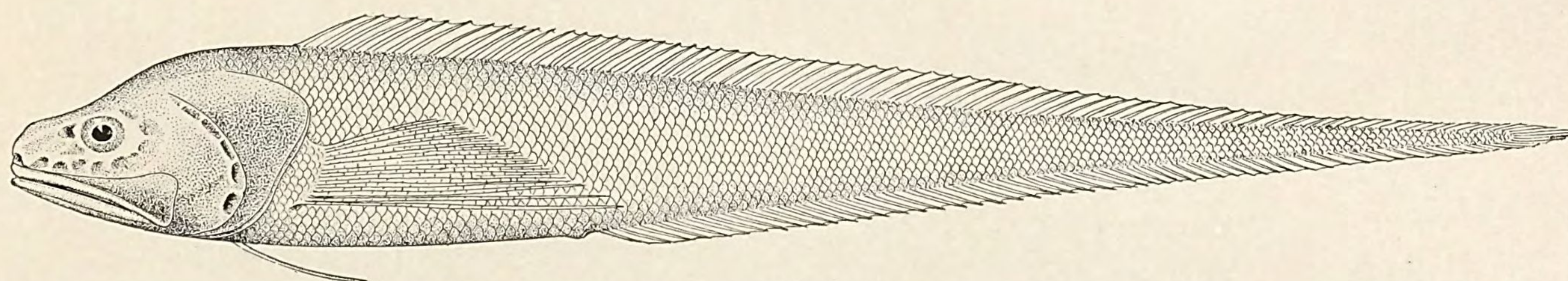
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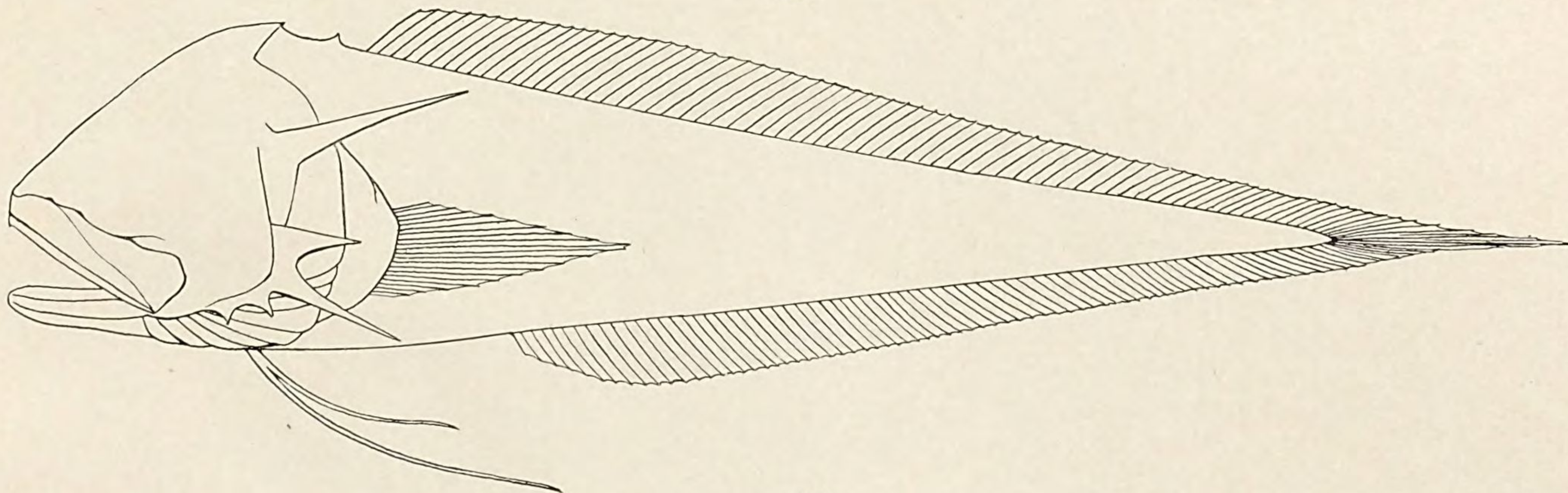
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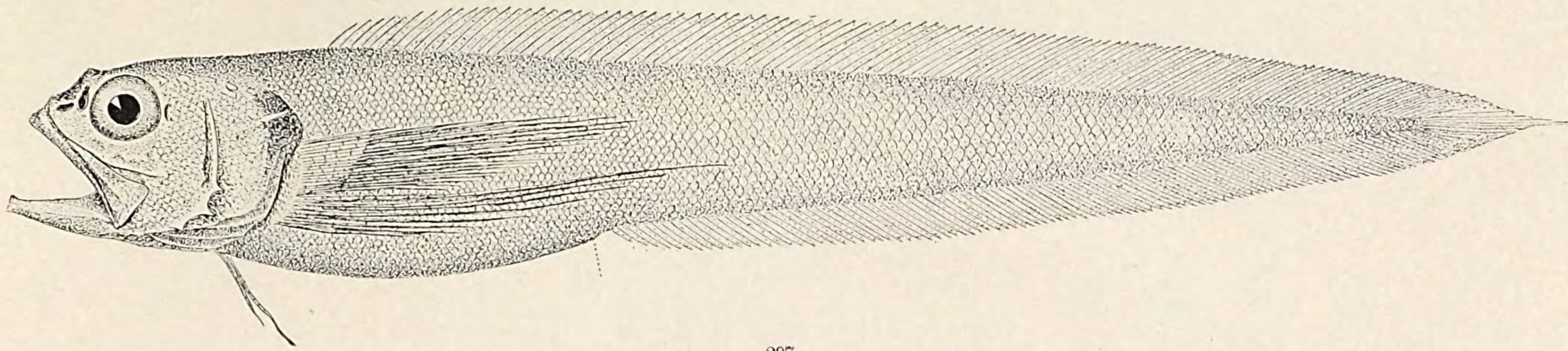


296a

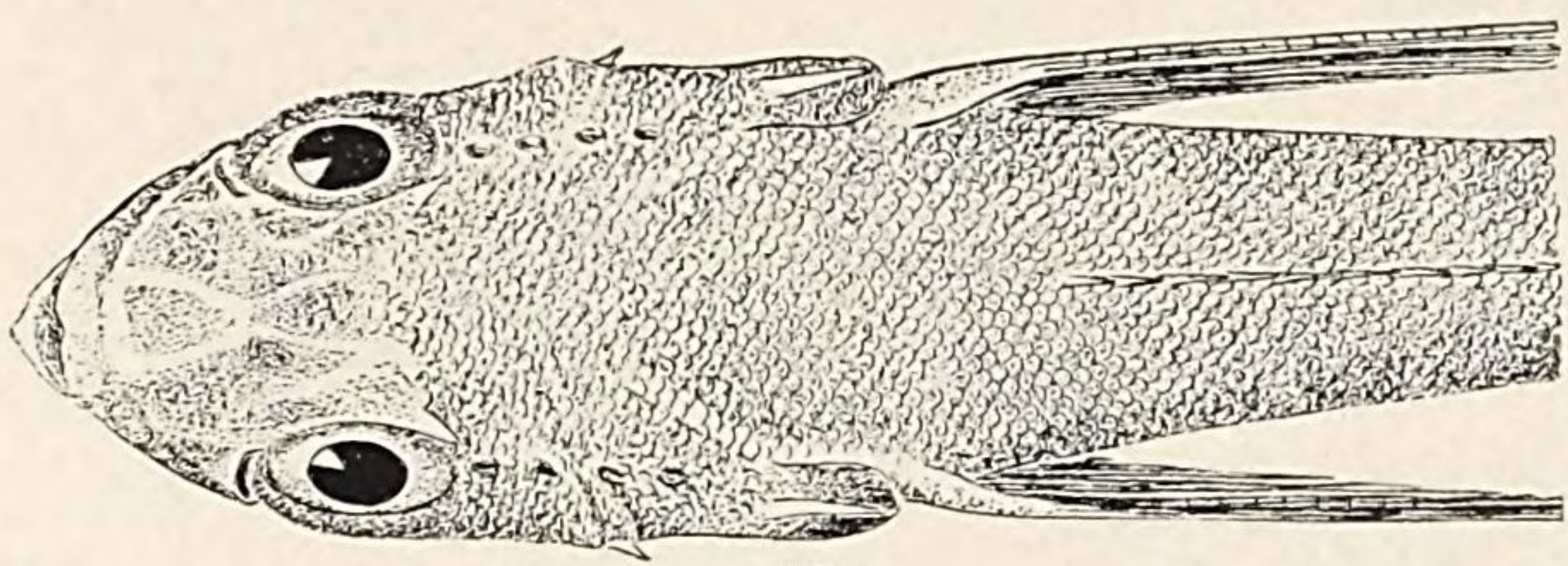


296b

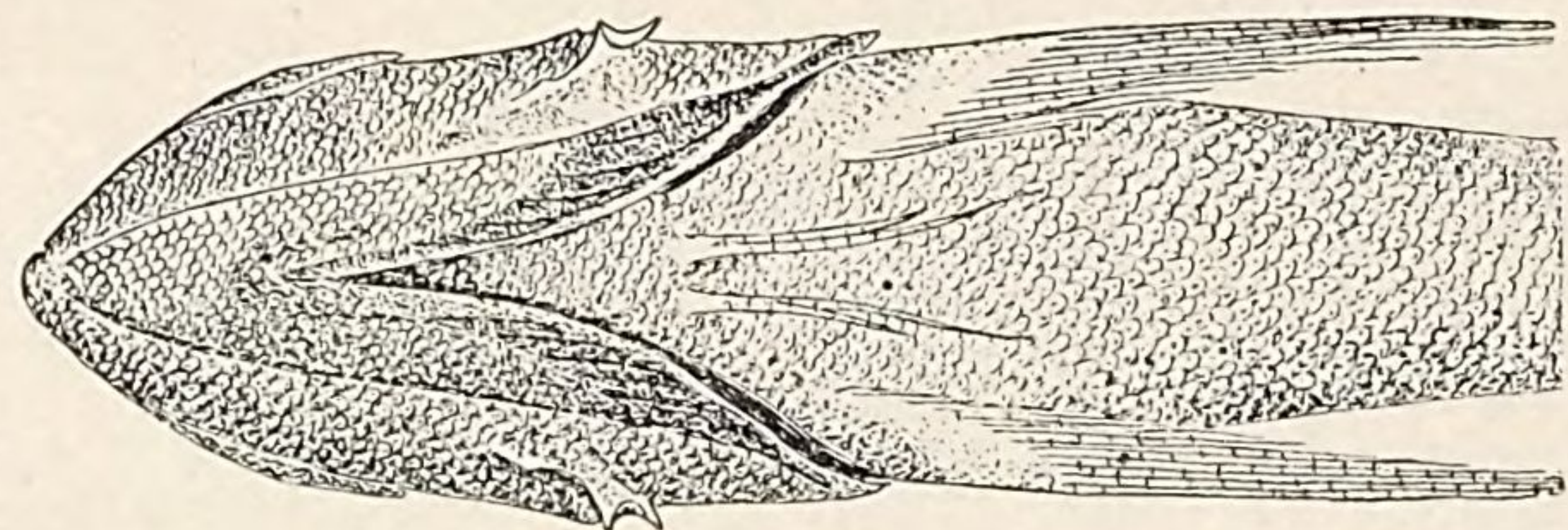
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| 293. <i>PENOPUS MACDONALDI</i> . (p. 336.) | 294. <i>BARATHRODEMUS MANATINUS</i> . (p. 332.) |
| 295. <i>NEMATONUS PECTORALIS</i> . (p. 333.) | 296a. <i>MIXONUS LATICEPS</i> . (p. 339.) |
| 296b. <i>TAUREDOPHIDIUM HEXTIL</i> . (p. 336.) | |



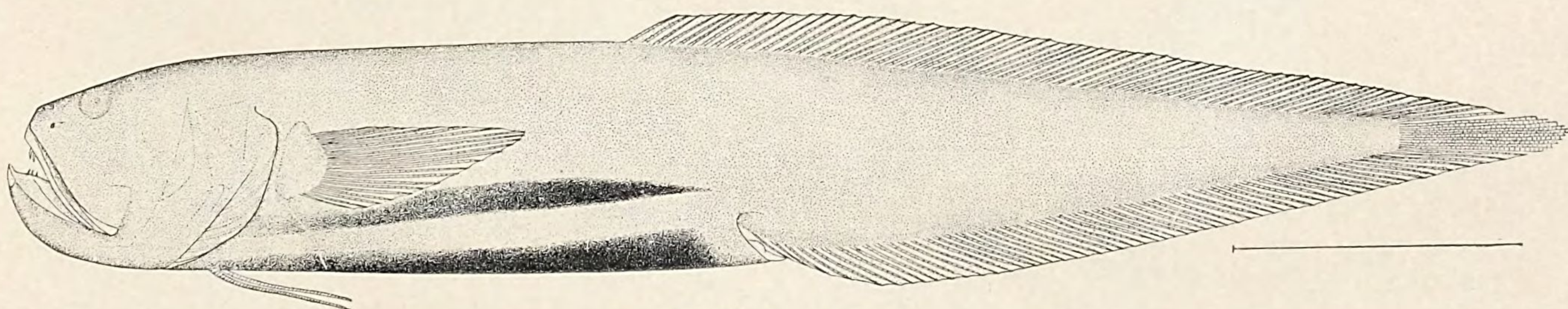
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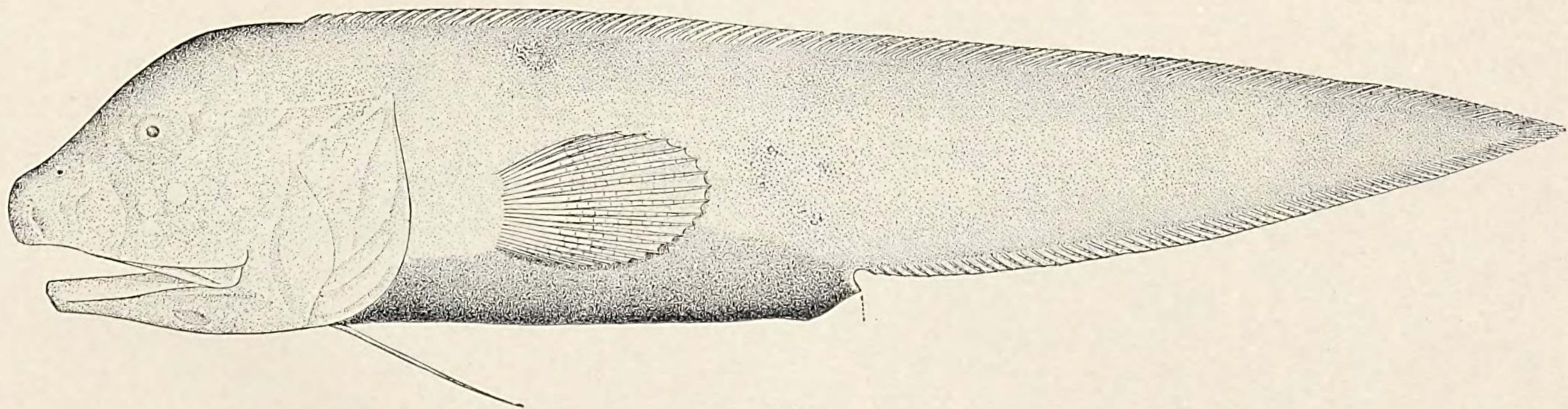
297a



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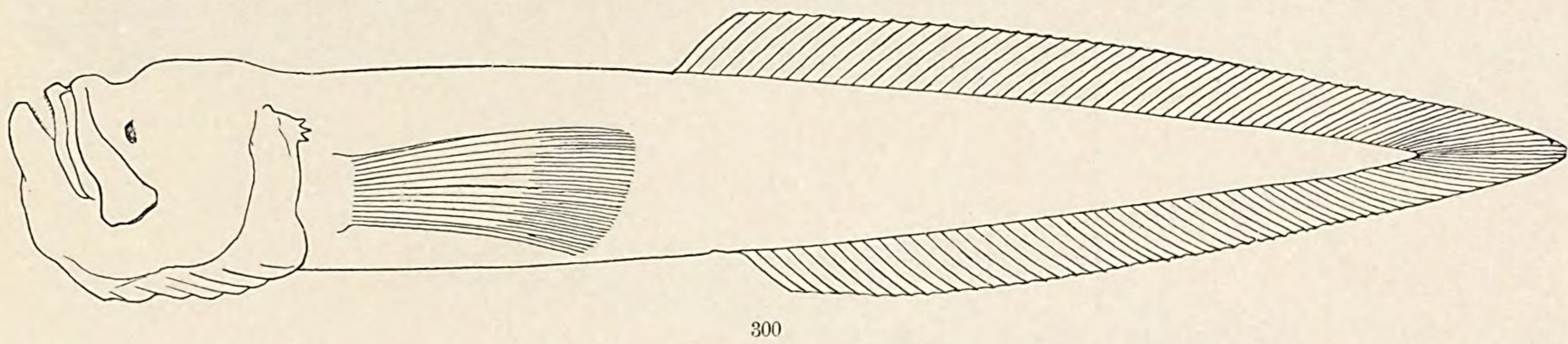


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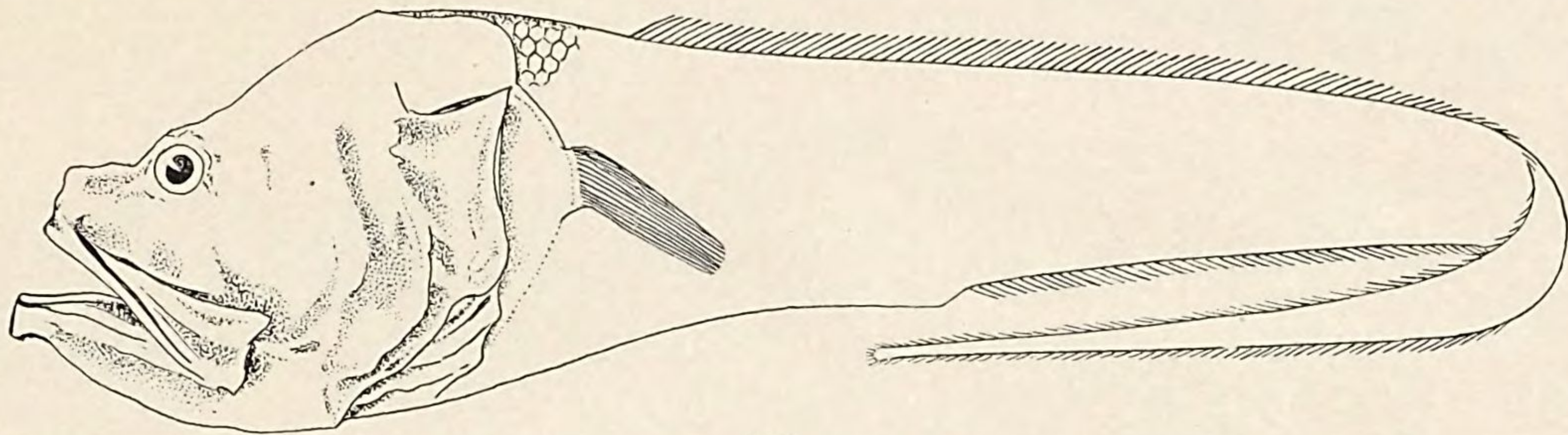
297, 297a, b. DICROLENE INTRONIGRA. (p. 338.)

298. BARATHRONUS BICOLOR. (p. 341.)

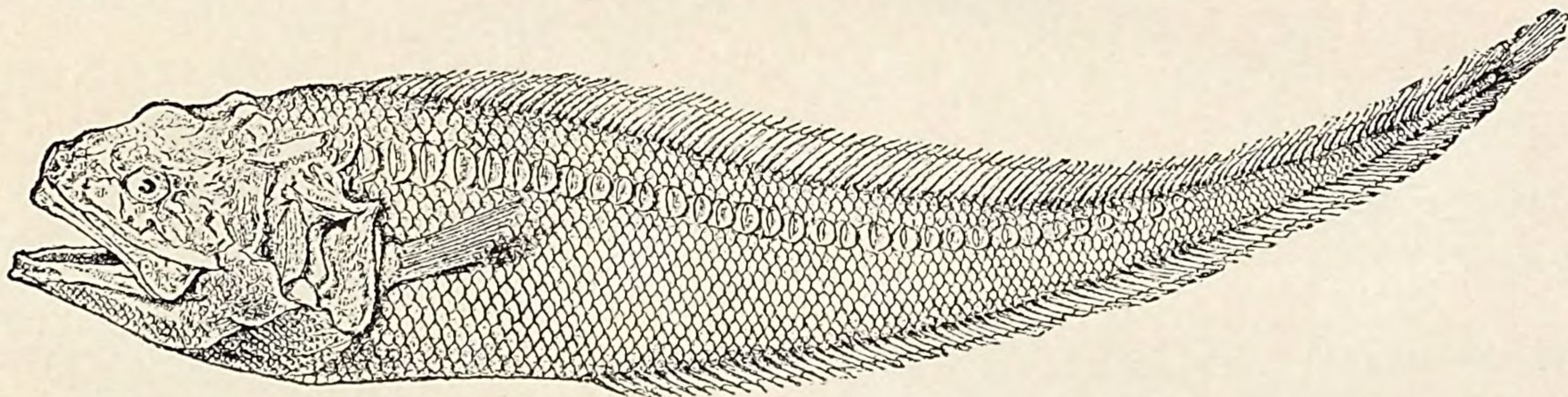
299. APHYONUS MOLLIS. (p. 342.)



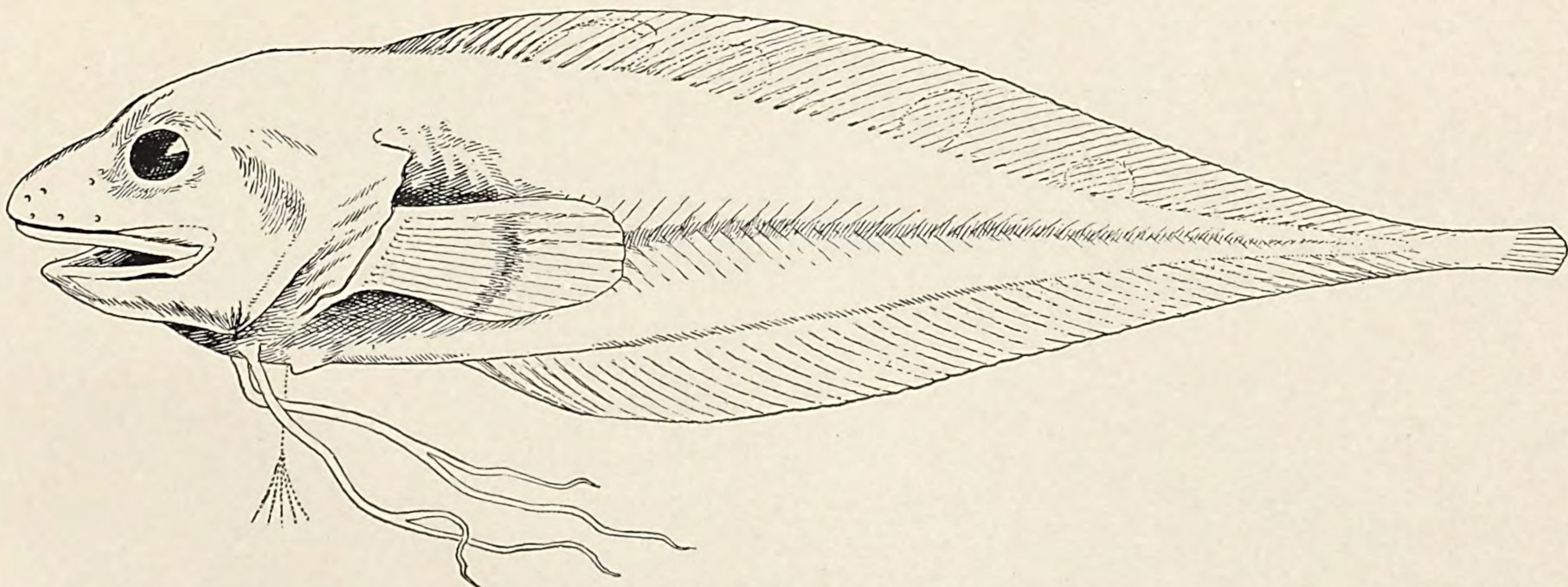
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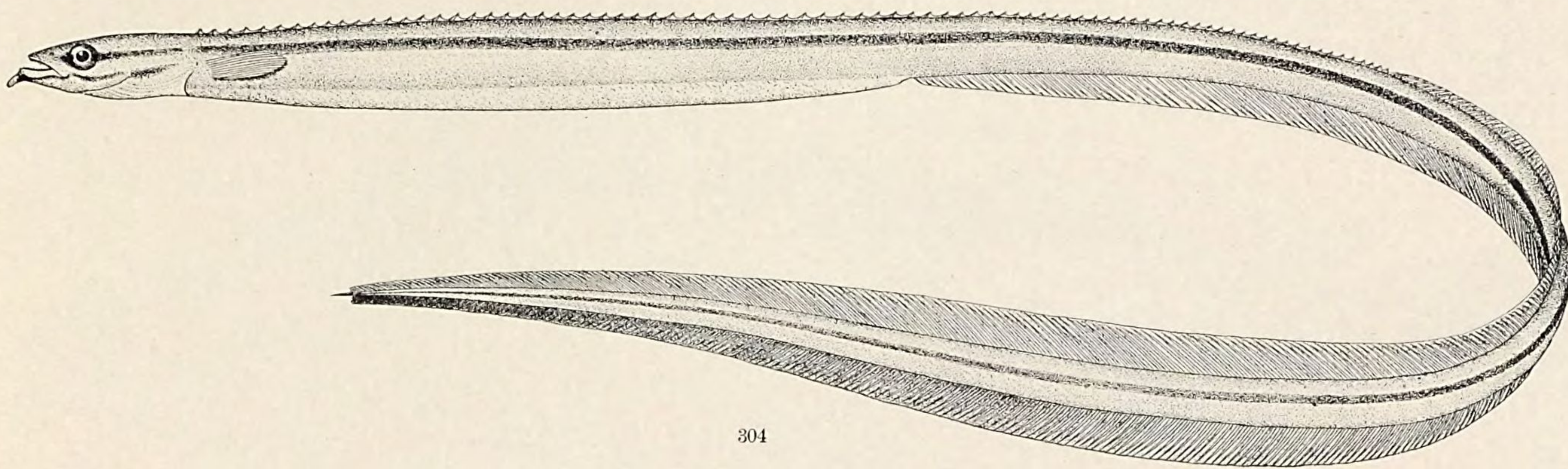
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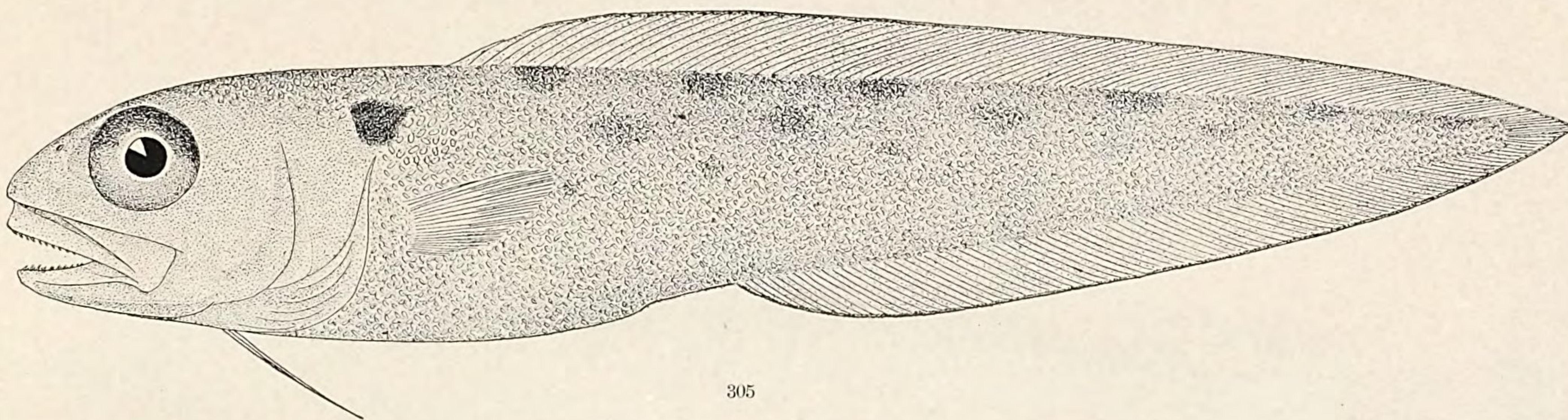
303

300. ALEXETERION PARFAITI. (p. 343.)
302. LAMPROGRAMMUS NIGER. (p. 344.)

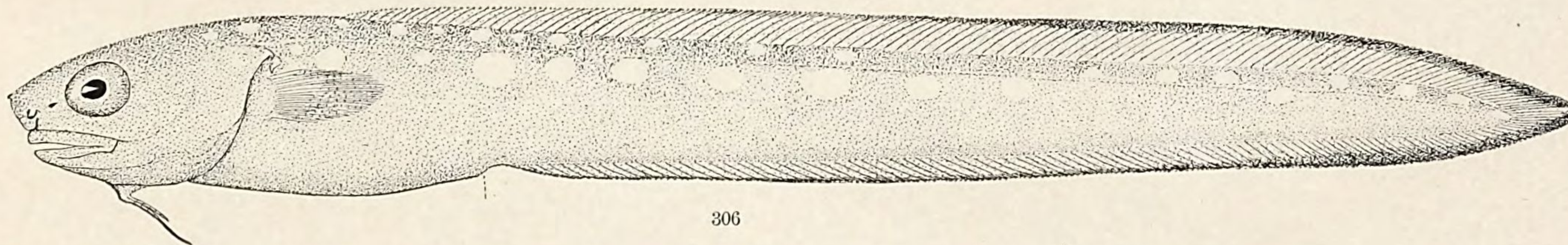
301. HEPHTHOCARA SIMUM. (p. 344.)
303. RHODICHTHYS REGINA. (p. 342.)



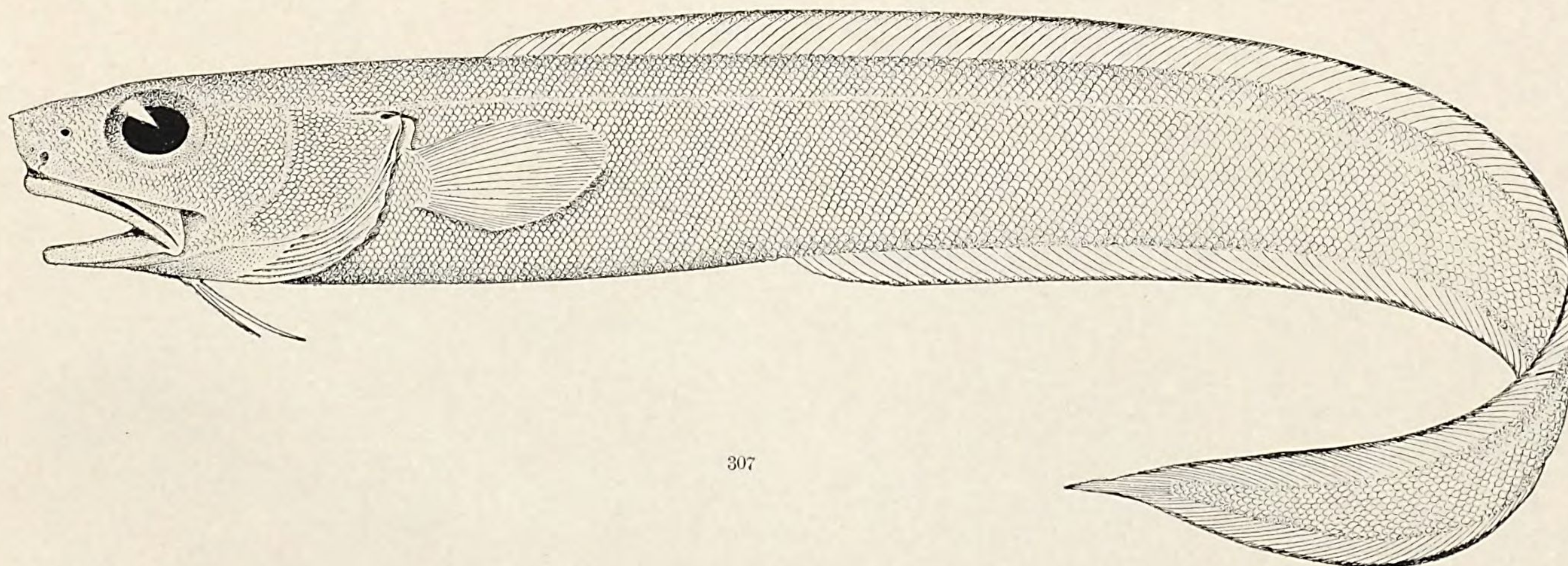
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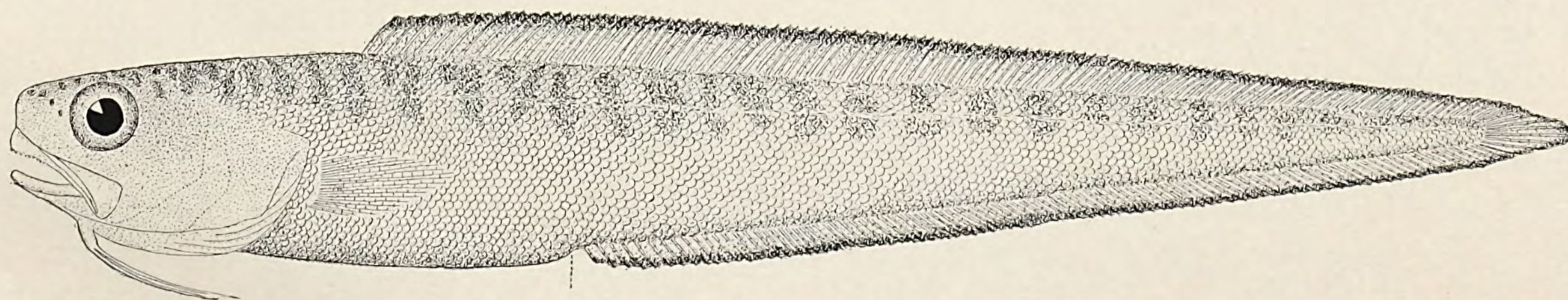
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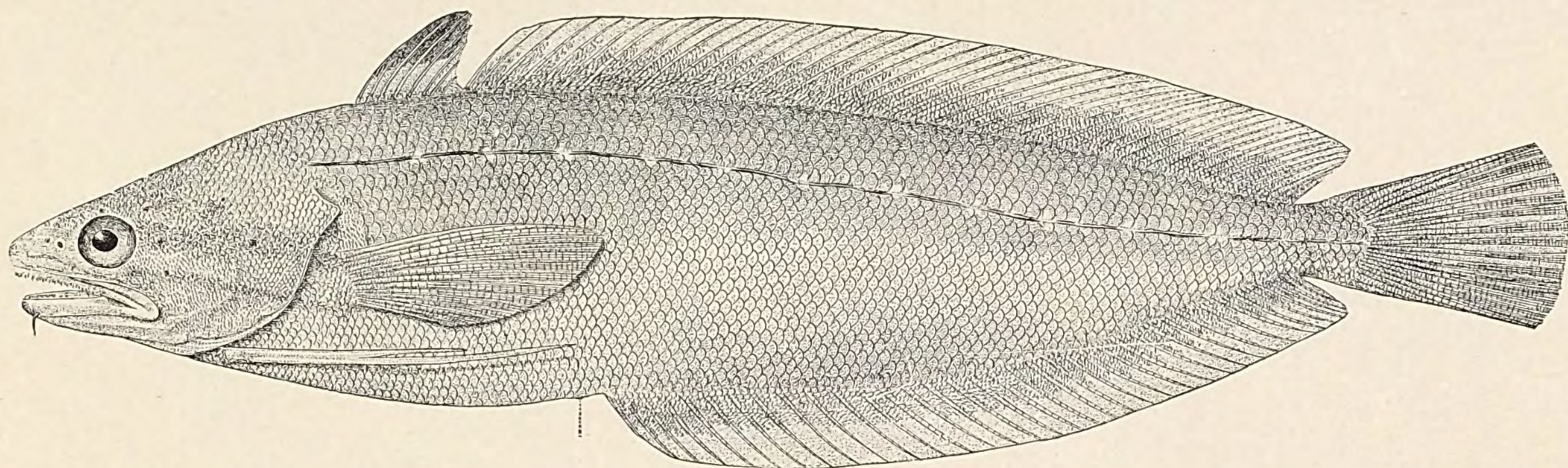


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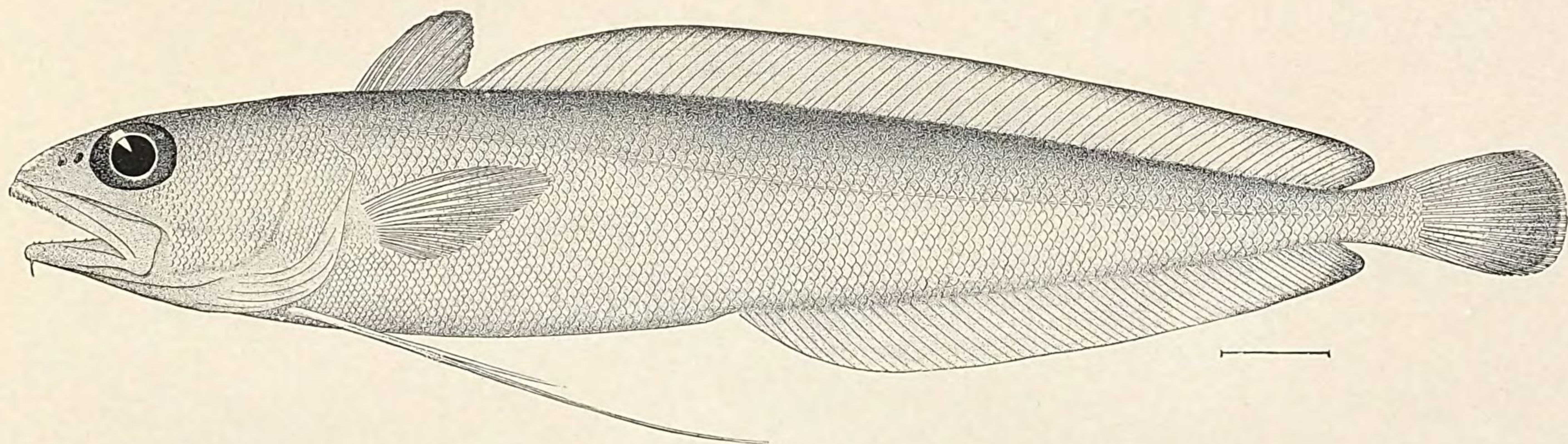
304. PTILICHTHYS GOODEI. (p. 302.)
306. LEPTOPHIDIUM CERVINUM. (p. 346.)

305. OTOPHIDIUM OMOSTIGMA (p. 345.)
307. LEPTOPHIDIUM PROFUNDORUM. (p. 347.)

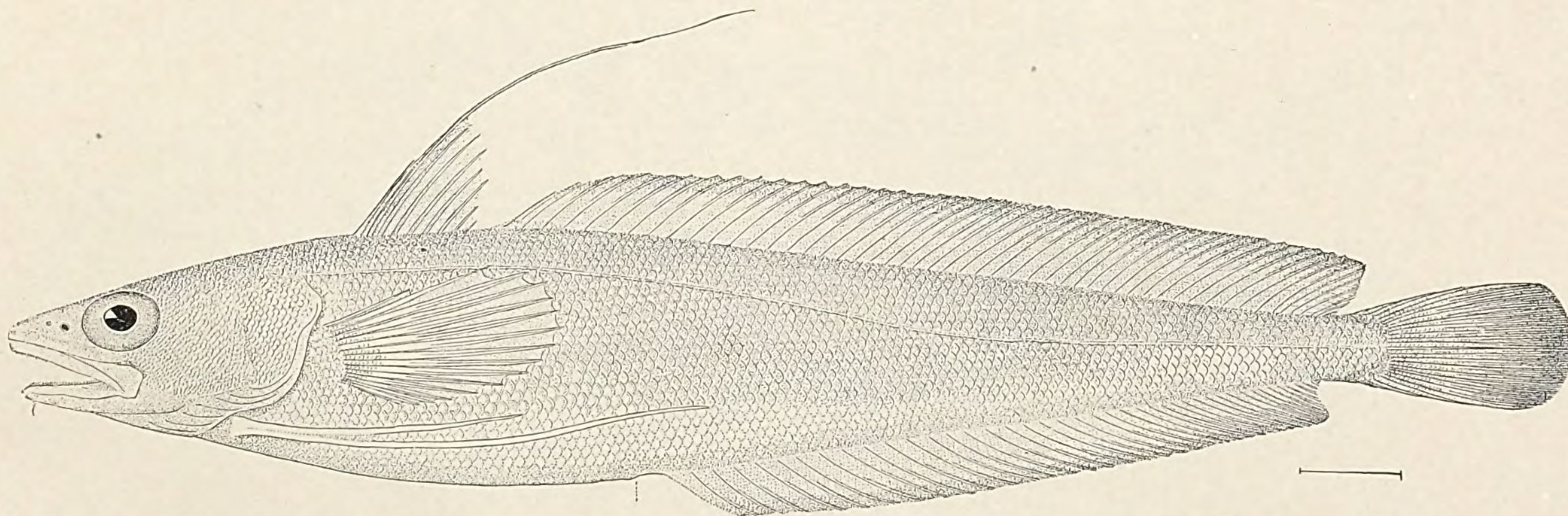
308. LEPTOPHIDIUM MARMORATUM. (p. 348.)



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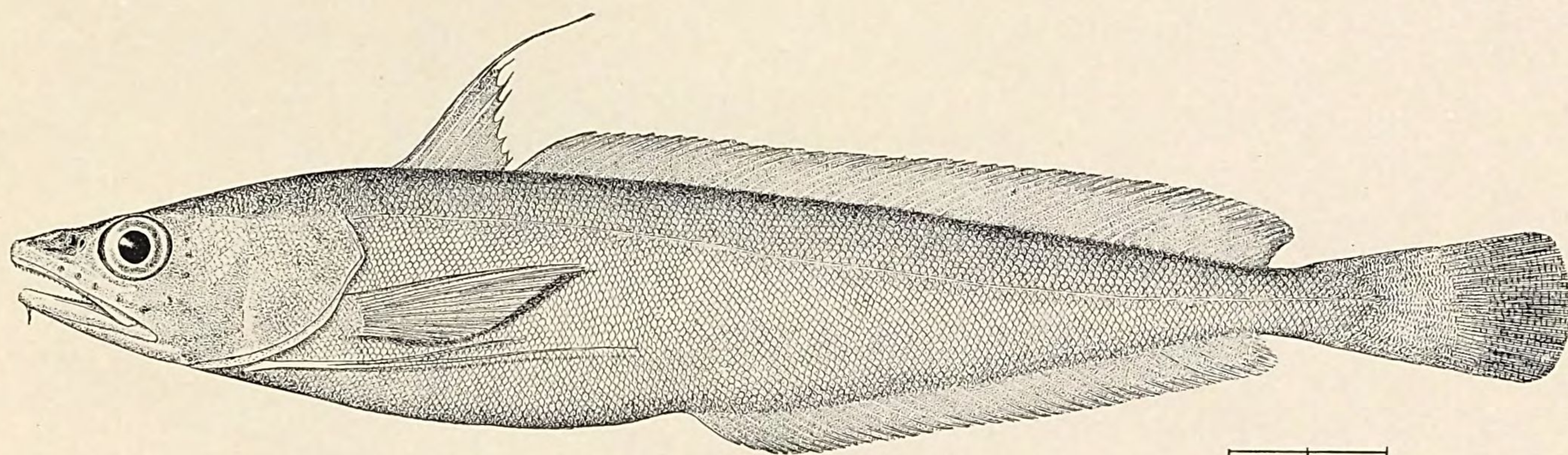


311

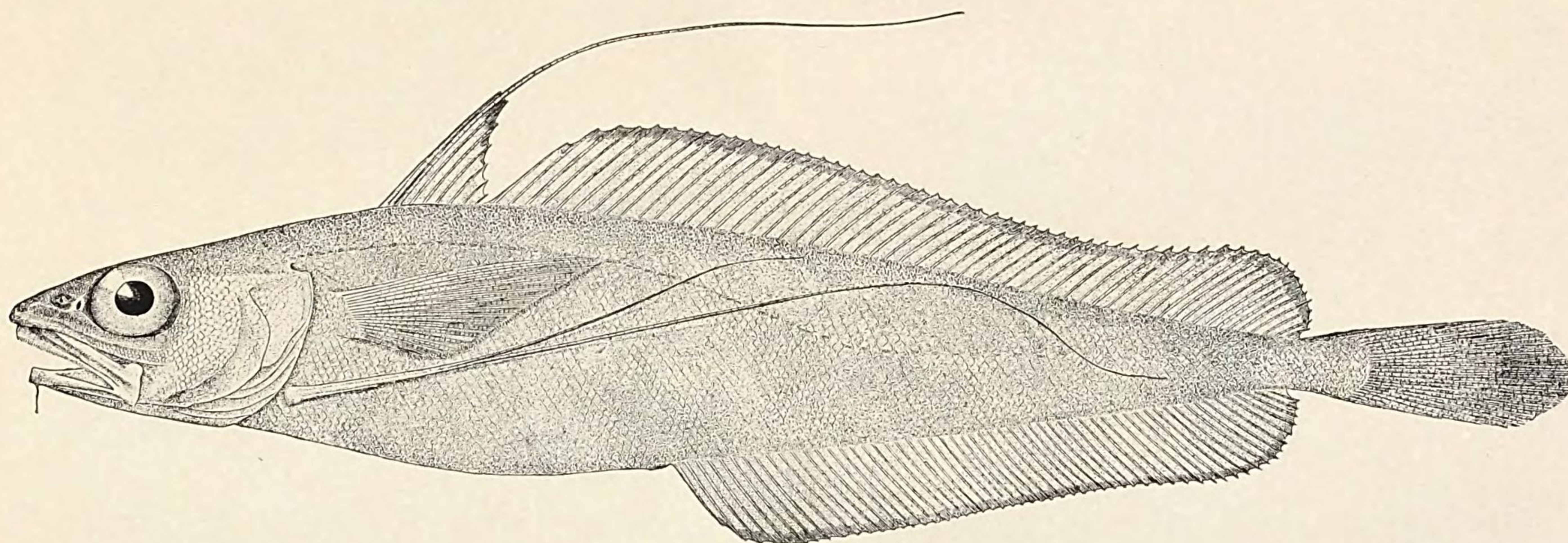
309. PHYCIS REGIUS. (p. 357.)

310. PHYCIS CIRRATUS. (p. 358.)

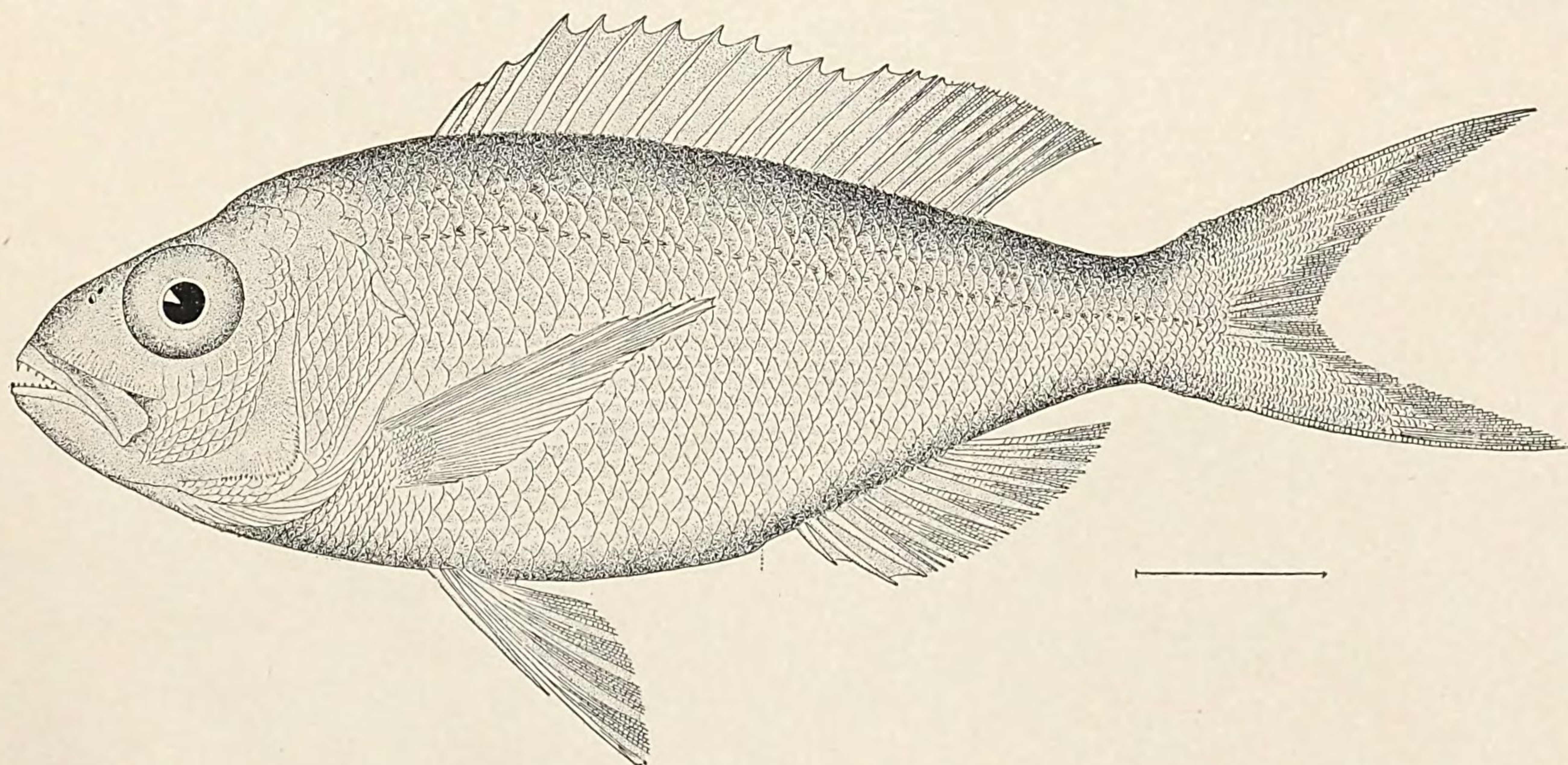
311. PHYCIS CHUSS. (p. 359.)



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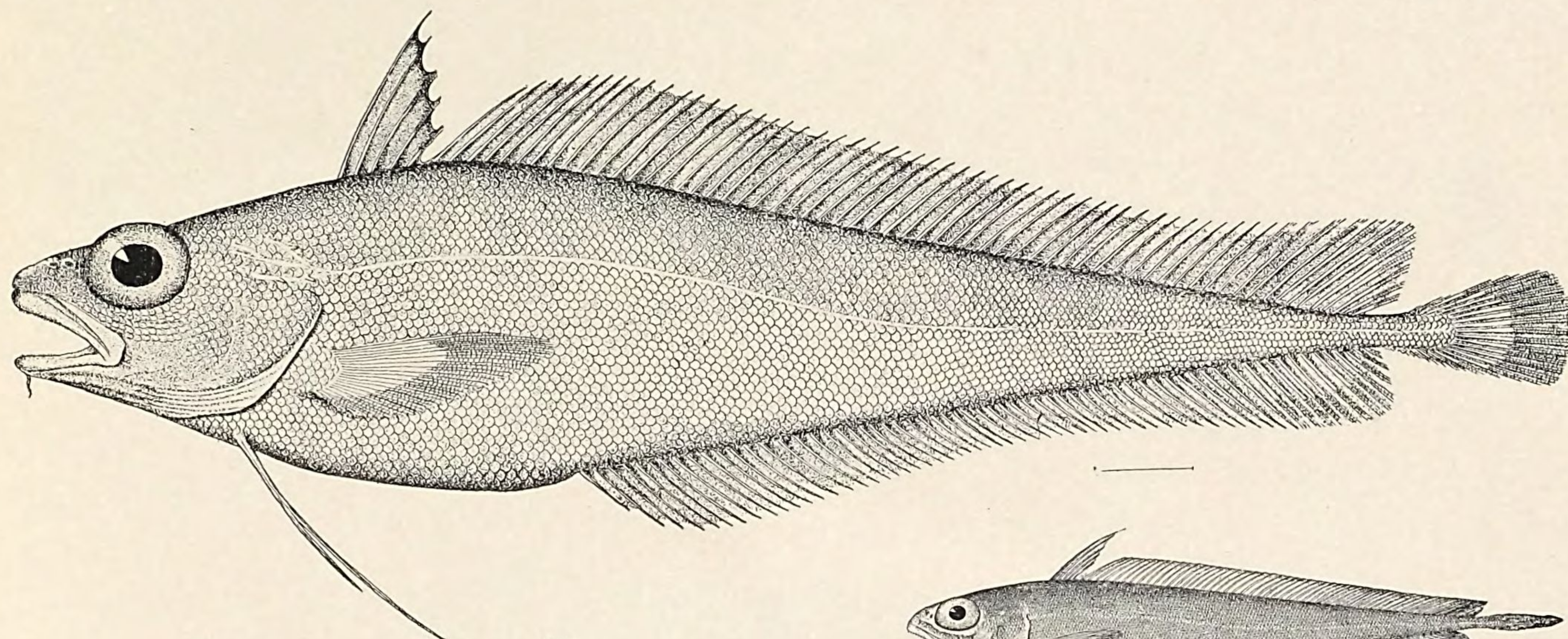


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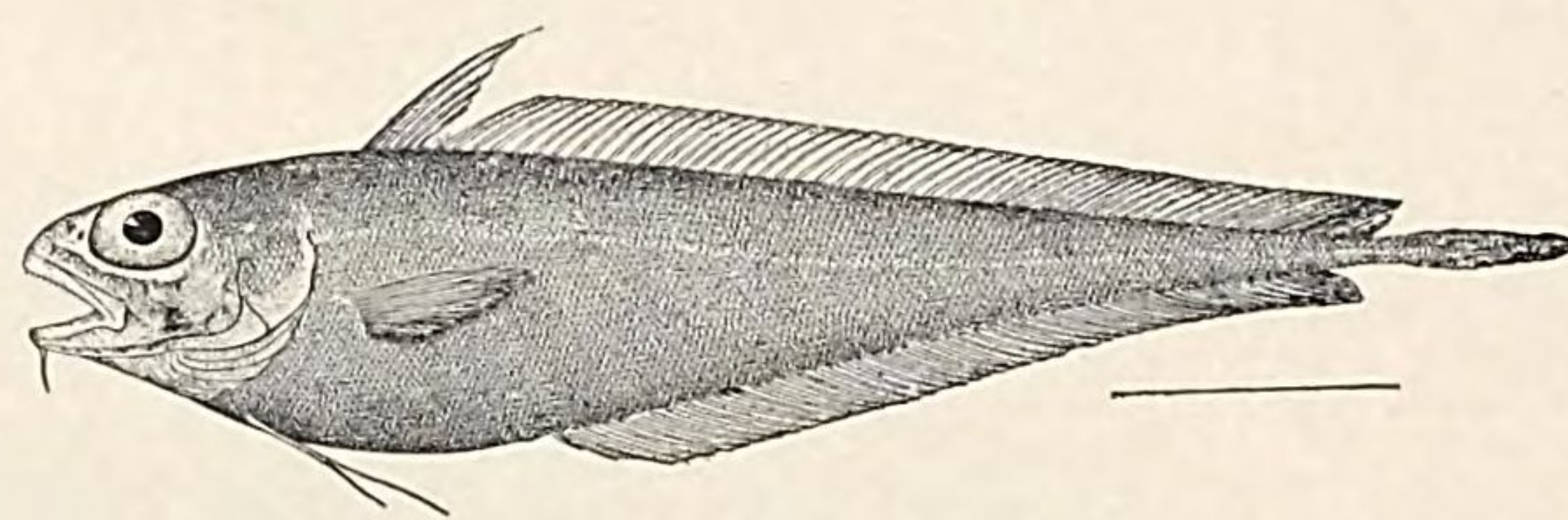
312. PHYCIS TENUIS. (p. 359.)

313. PHYCIS CHESTERI. (p. 360.)

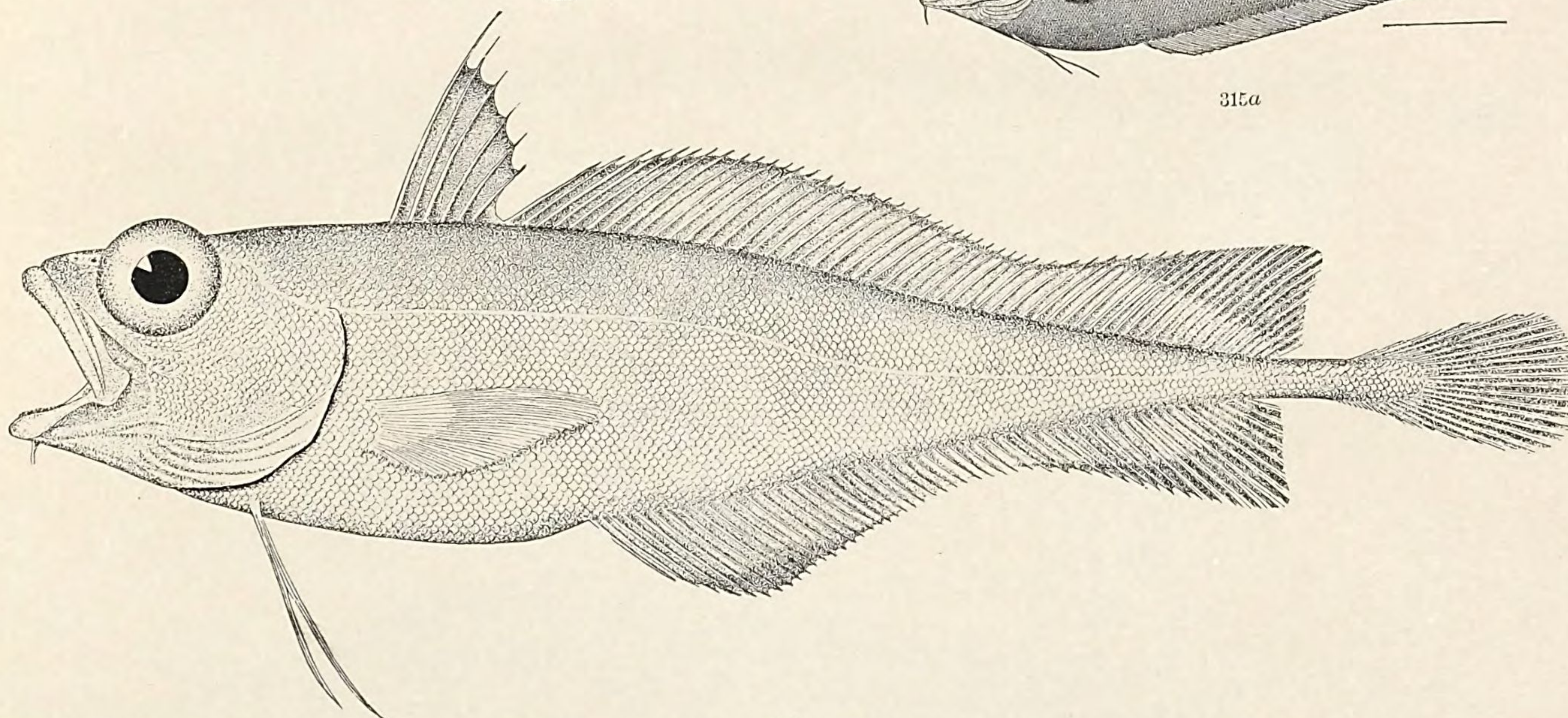
314. APRION MACROPHthalmus. (p. 239.)



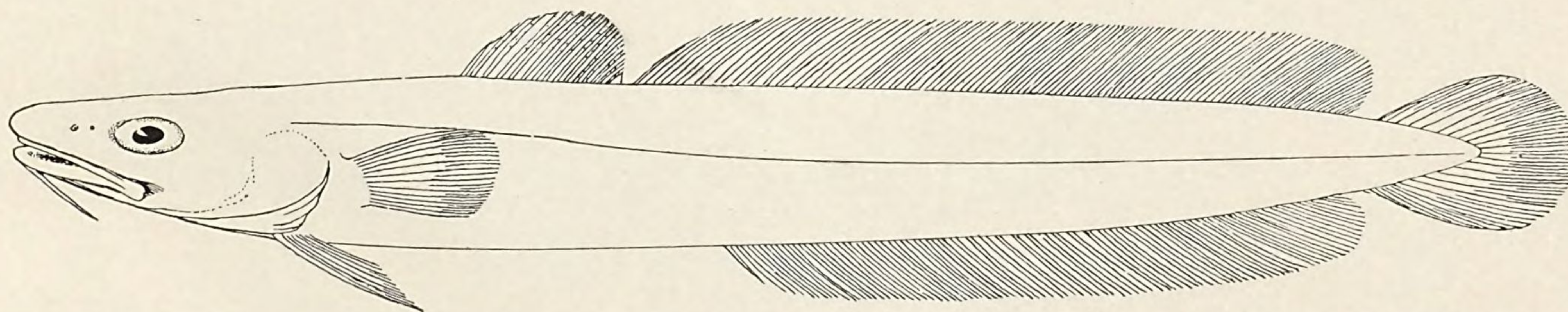
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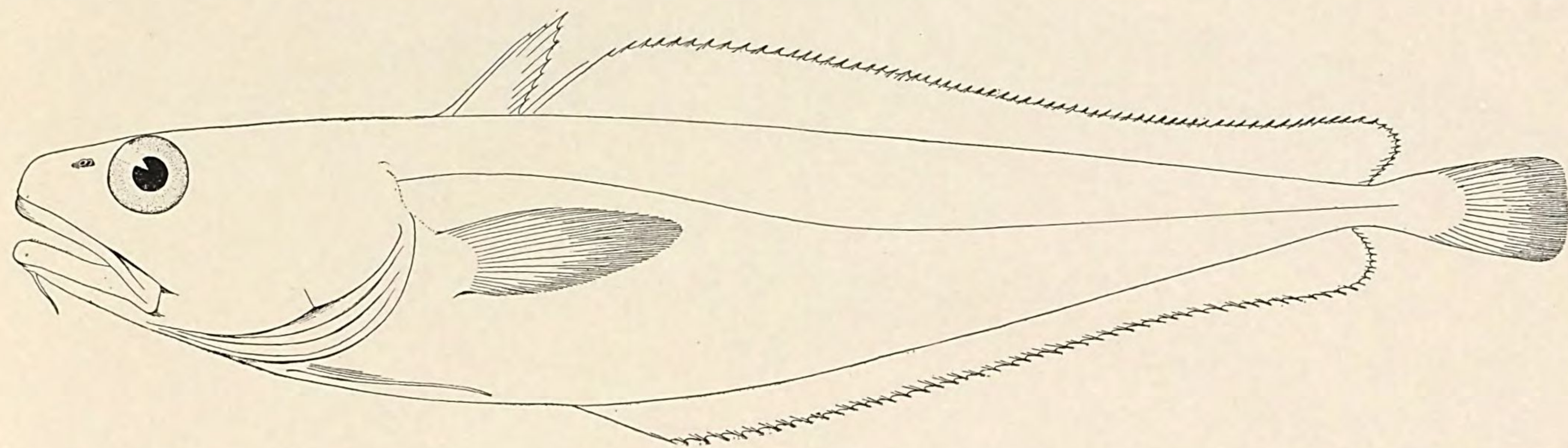


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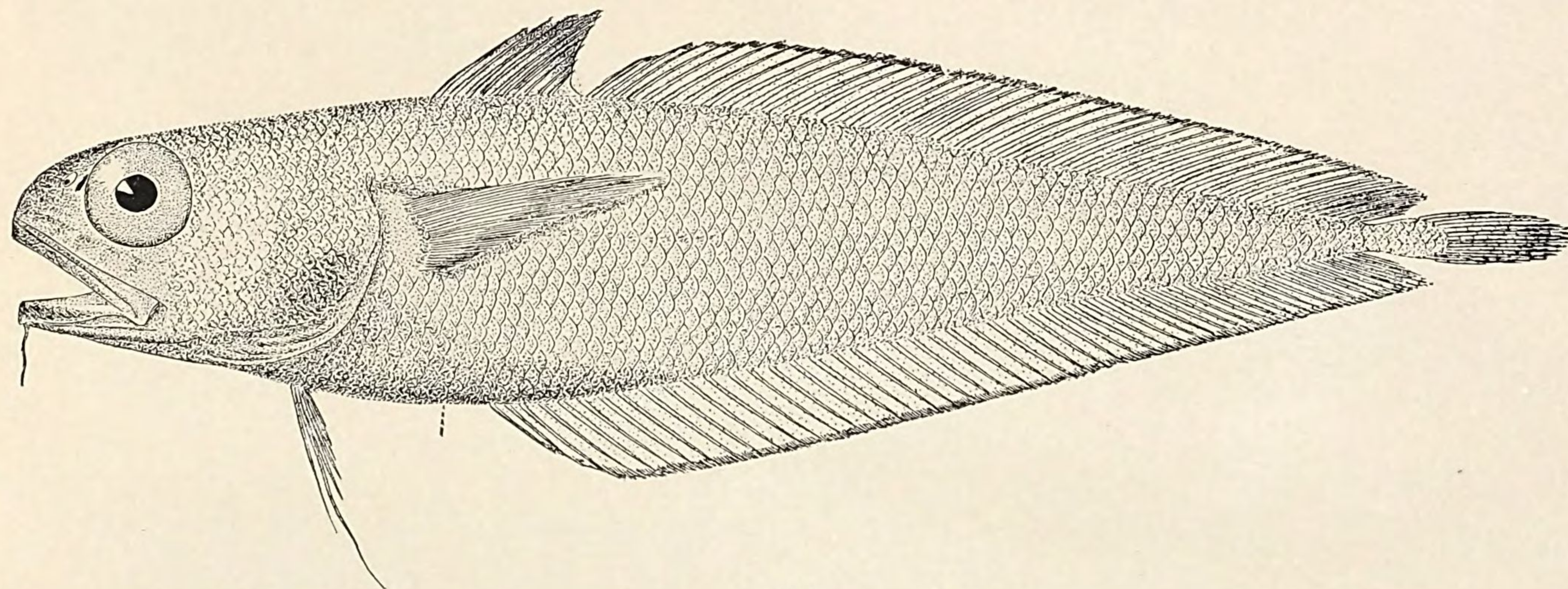
315, 315a. LEMONEMA BARBATULA. (p. 362.)

317. MOLVA VULGARIS. (p. 364.)

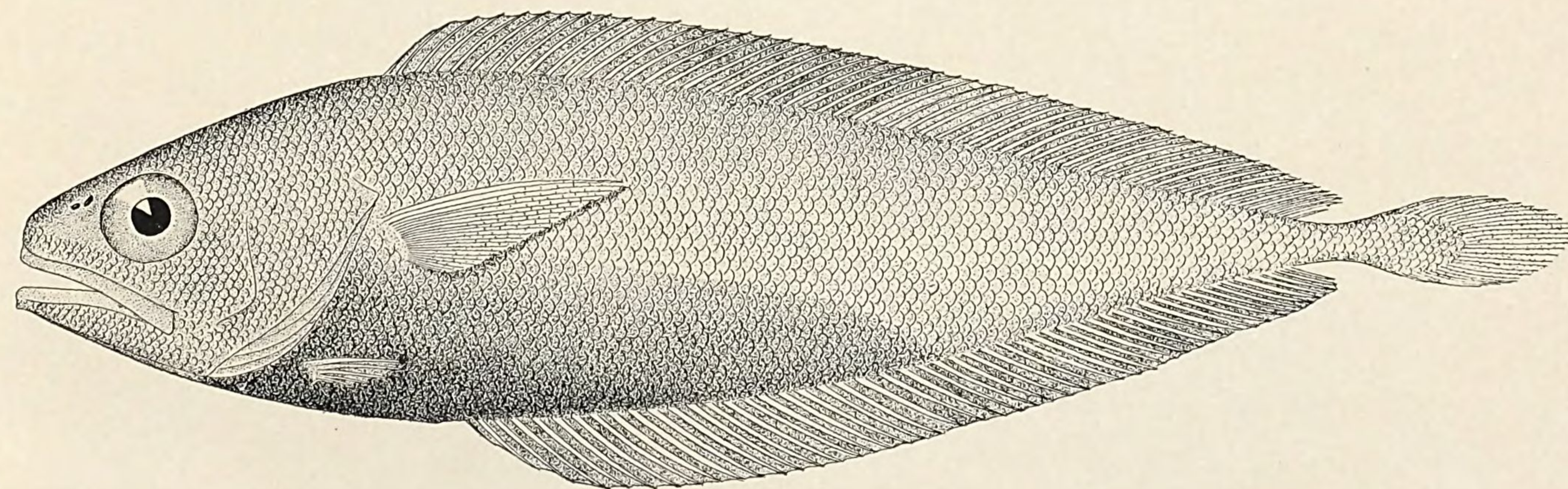
316. LEMONEMA MELANURUM. (p. 363.)



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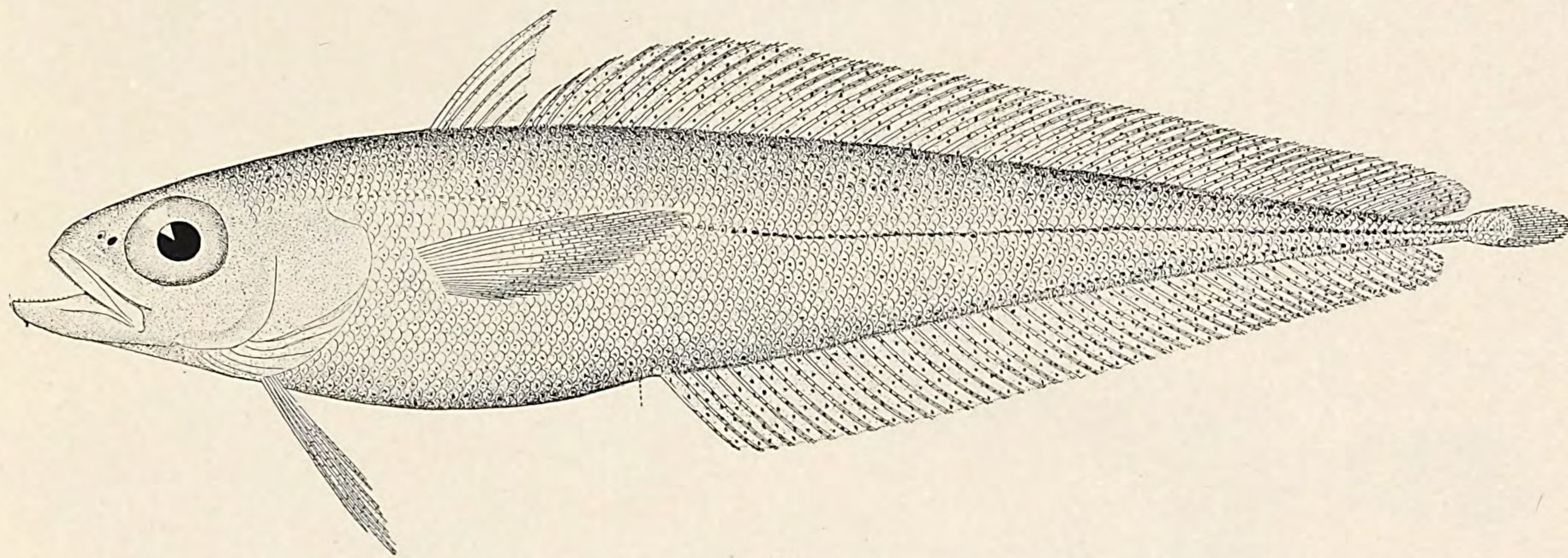


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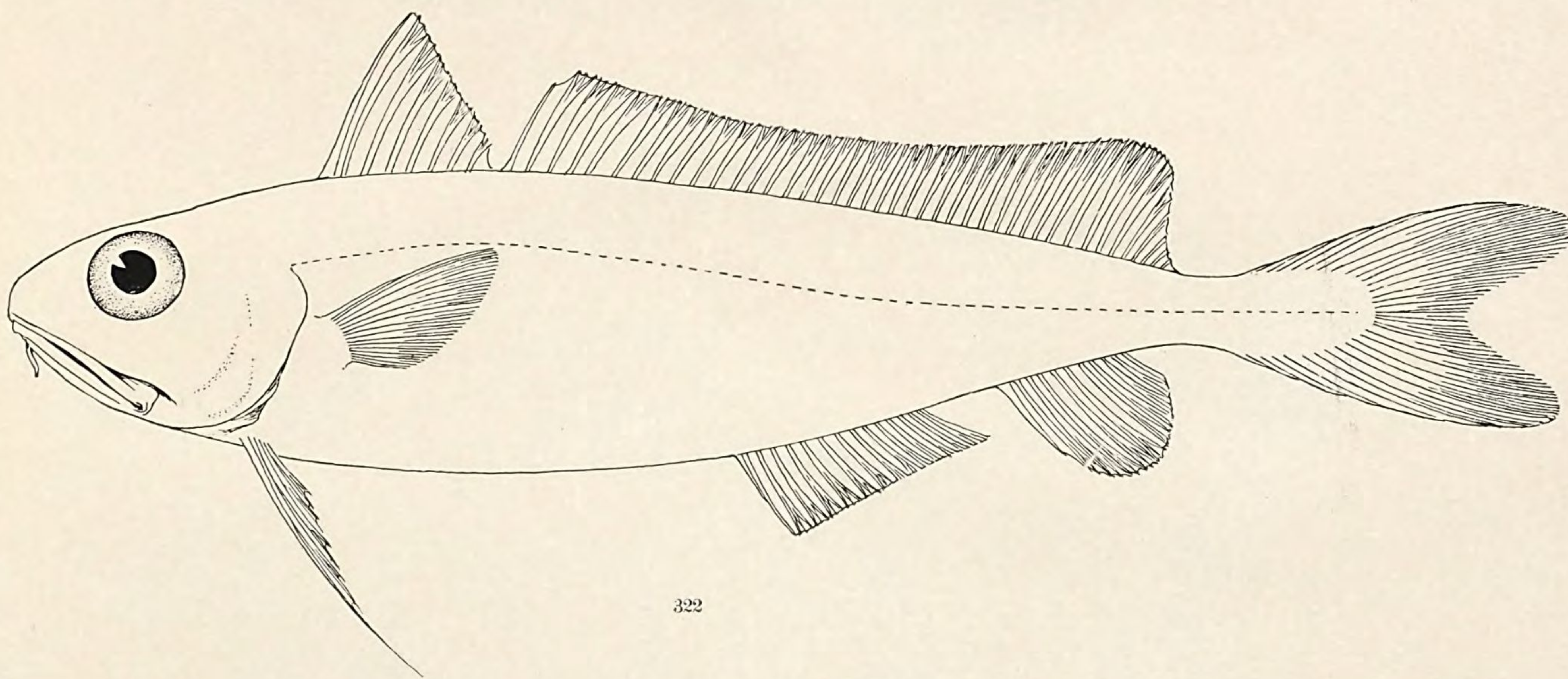
318. PHYSICULUS KAUPI. (p. 366.)

319. PHYSICULUS FULVUS. (p. 366.)

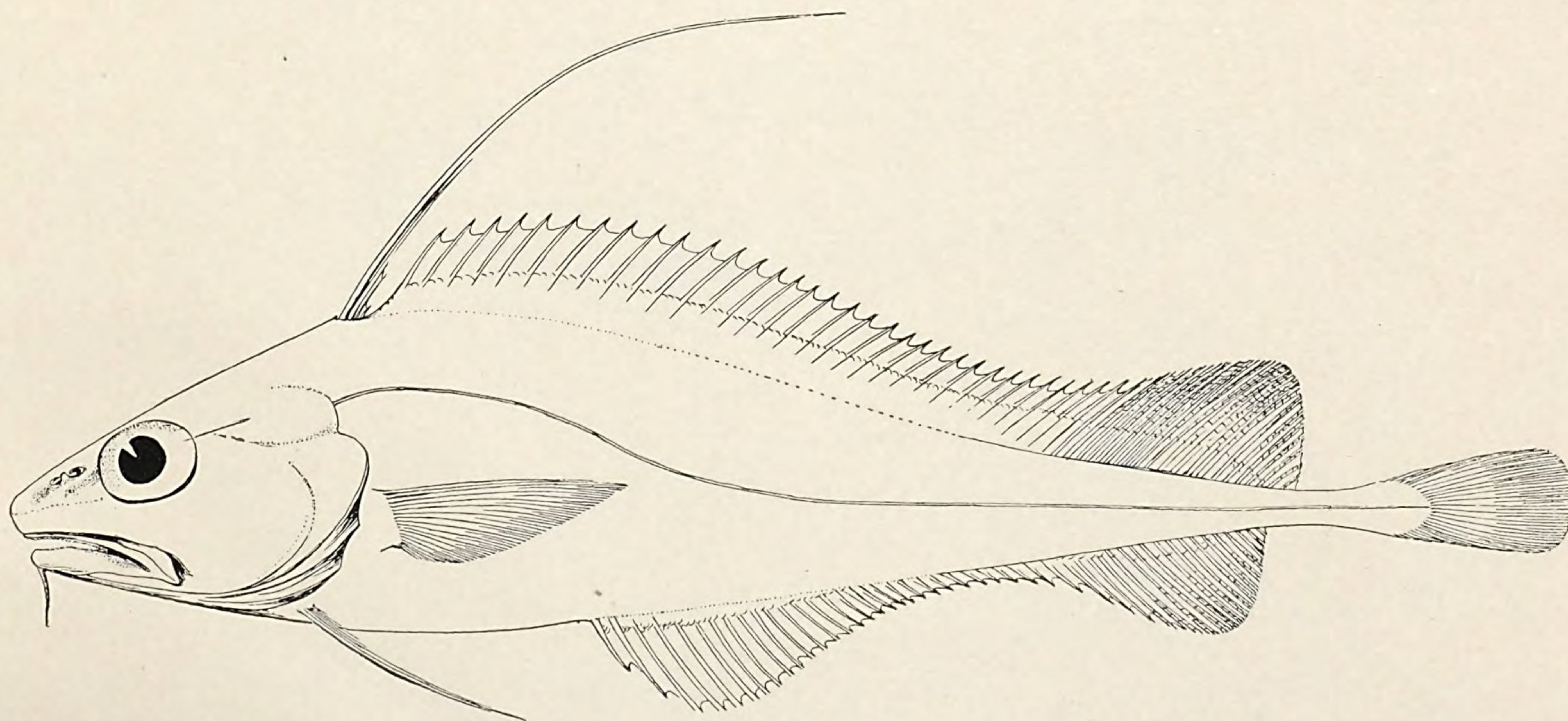
320. URALEPTUS MARALDI. (p. 367.)



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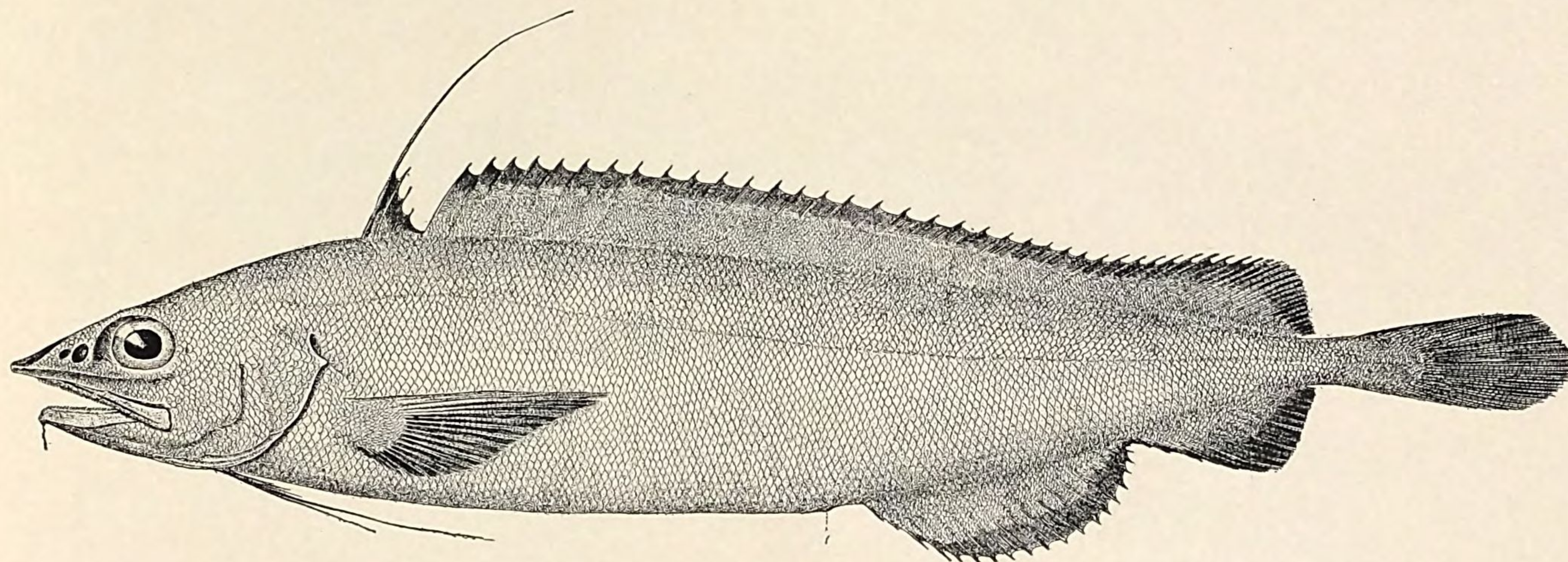


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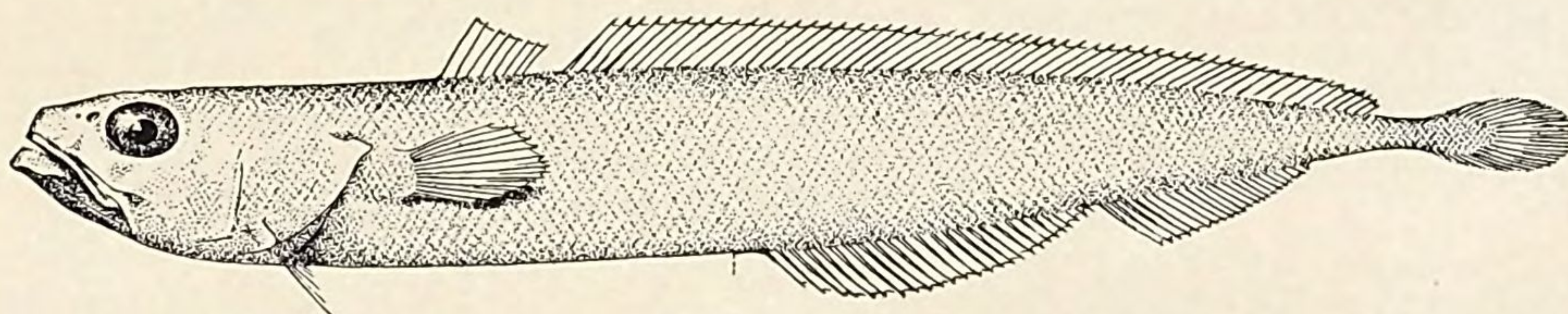
321. *LOTELLA MAXILLARIS*. (p. 368.)

322. *MORA MEDITERRANEA*. (p. 369.)

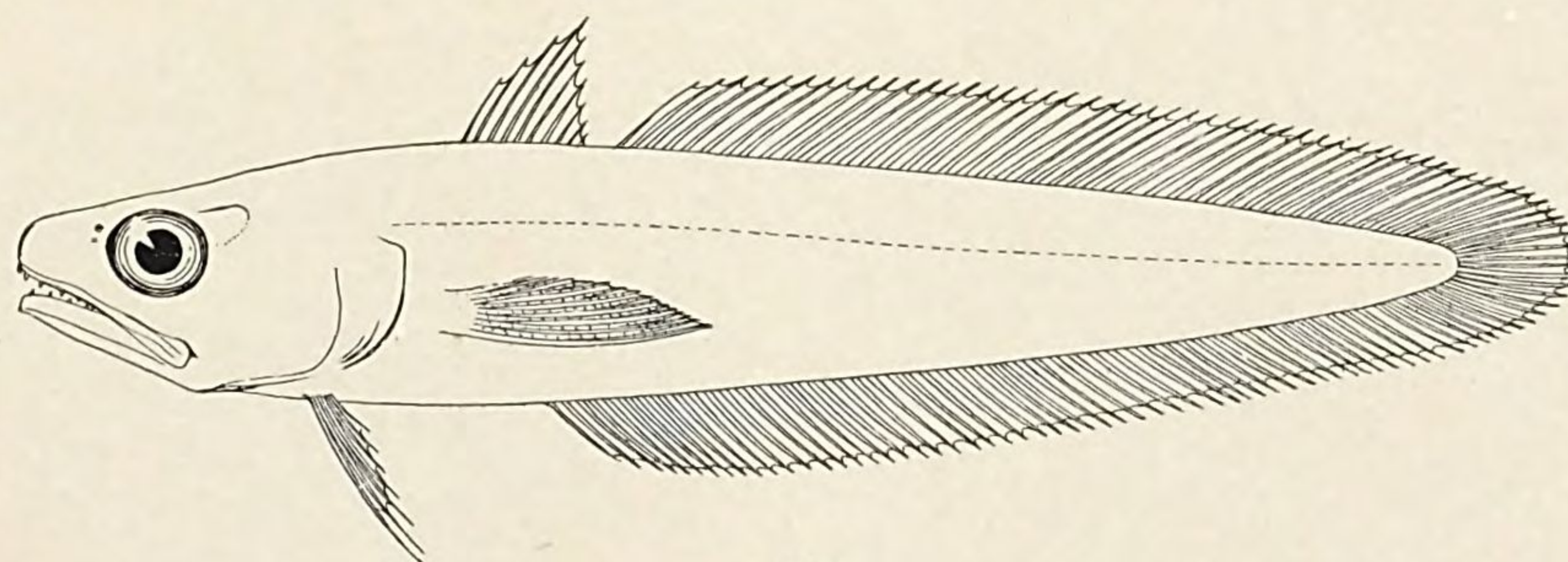
323. *LEPIDION RISSOL*. (p. 370.)



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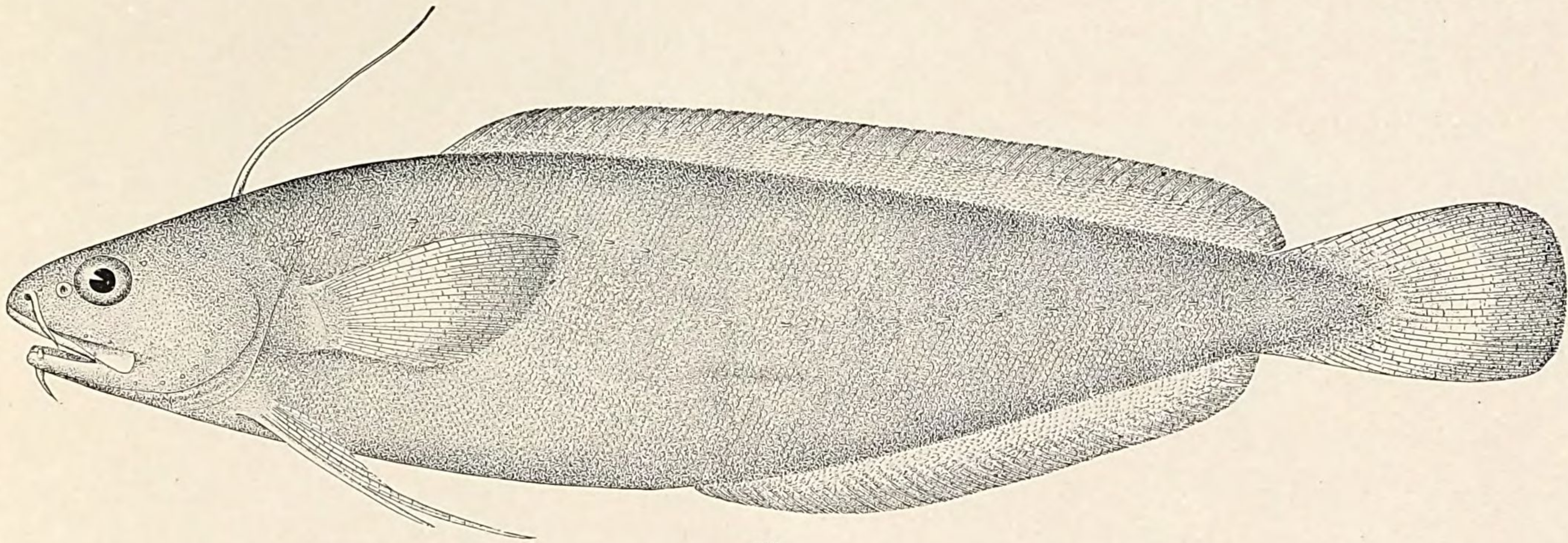


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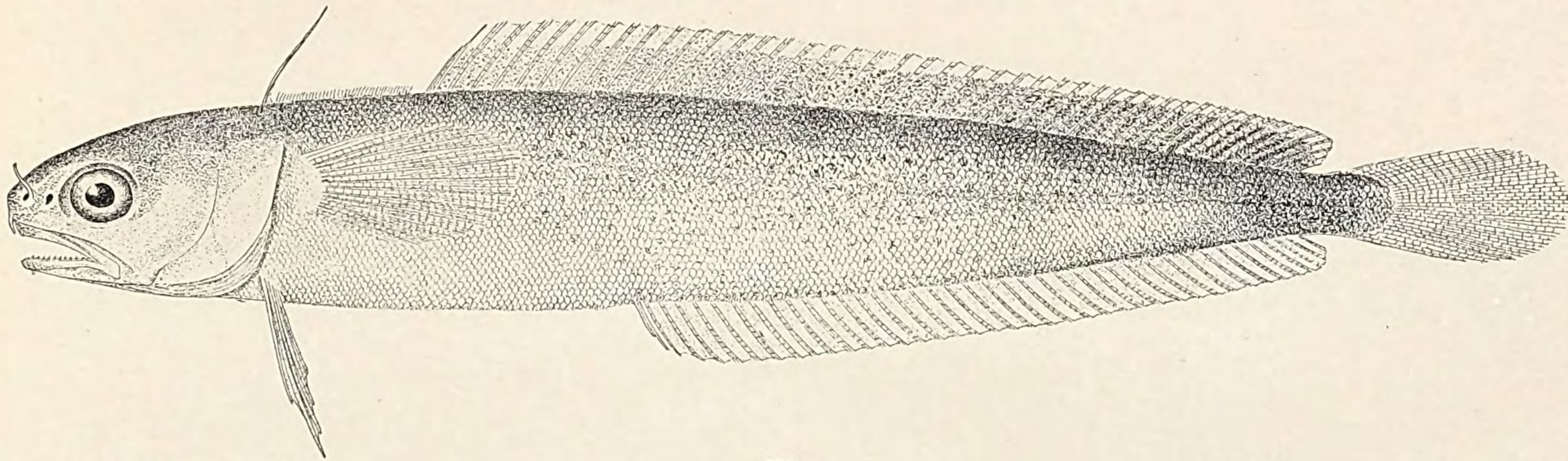
324. *ANTIMORA VIOLA*. (p. 372.)

325. *HALARGYREUS BREVIPES*. (p. 375.)

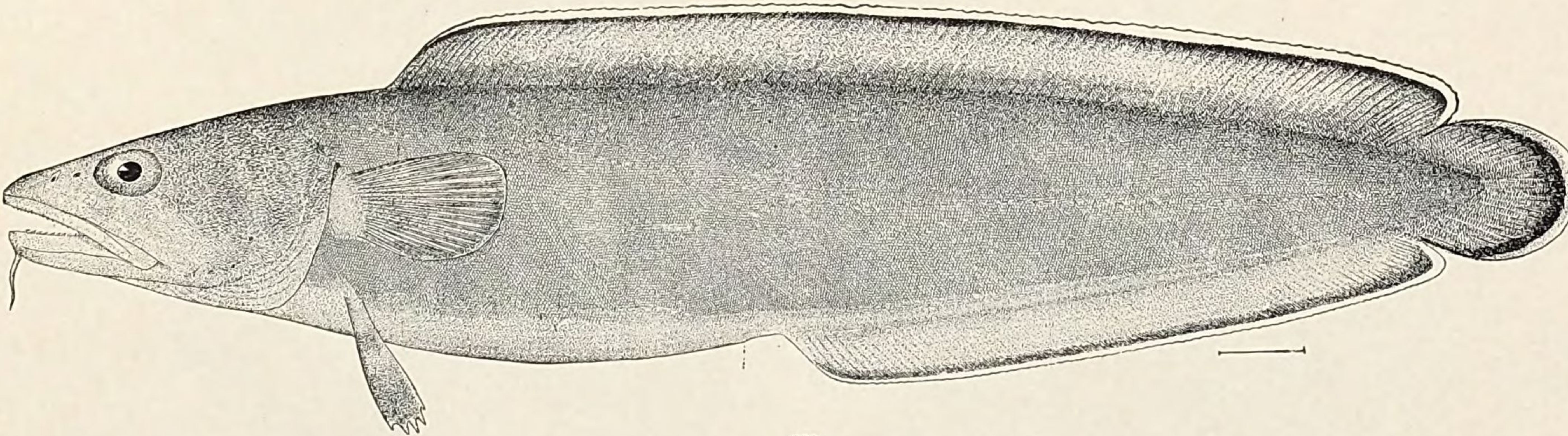
326. *STRINSIA TINCA*. (p. 380.)



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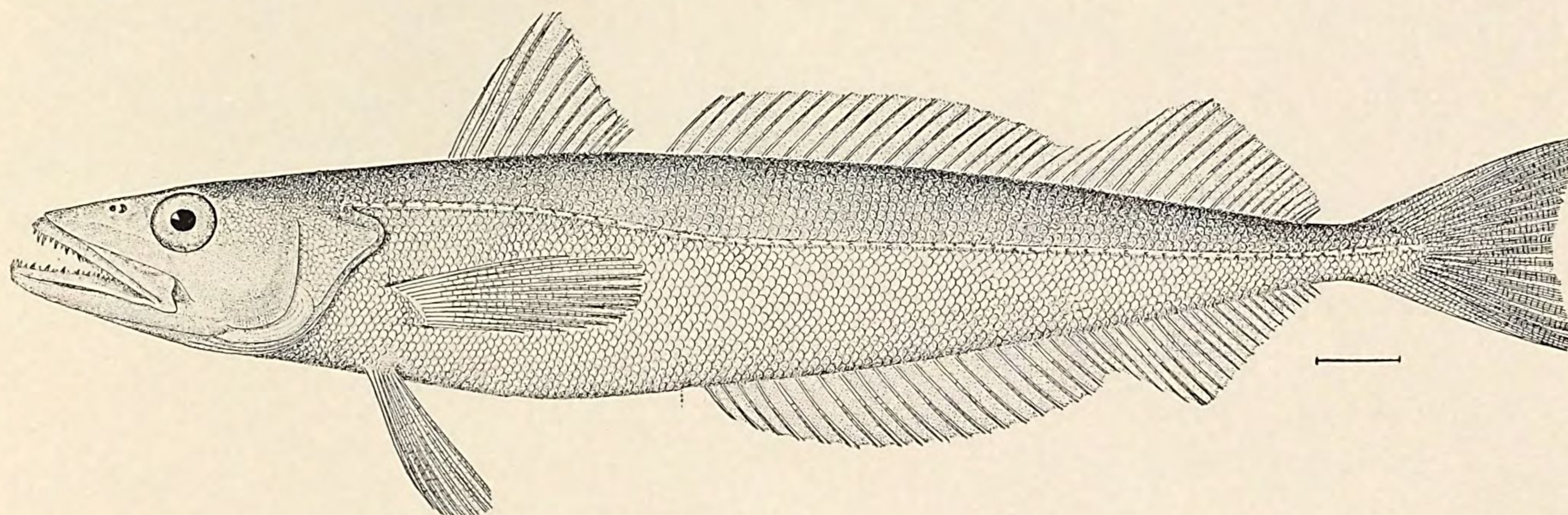


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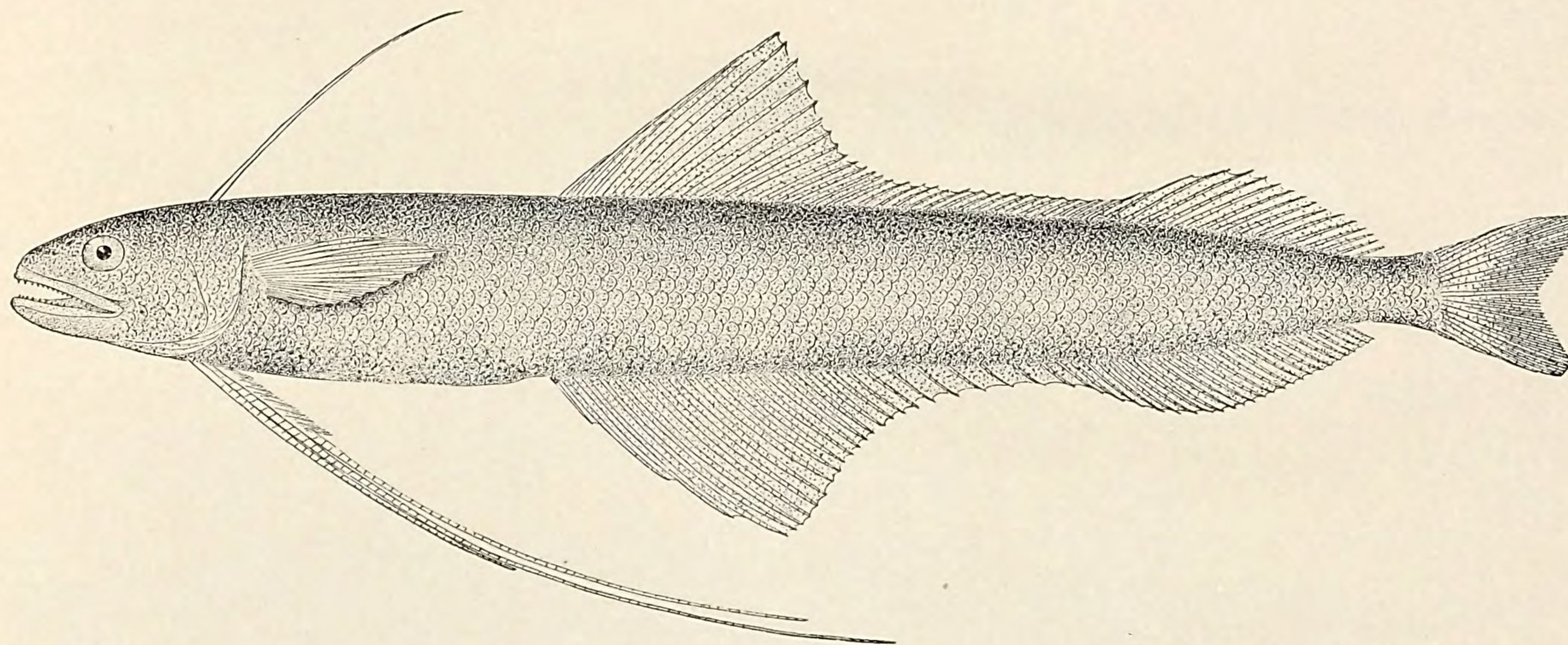
327. *ONOS ENSIS*. (p. 381.)

328. *RHINONEMUS CIMBRIUS*. (p. 384.)

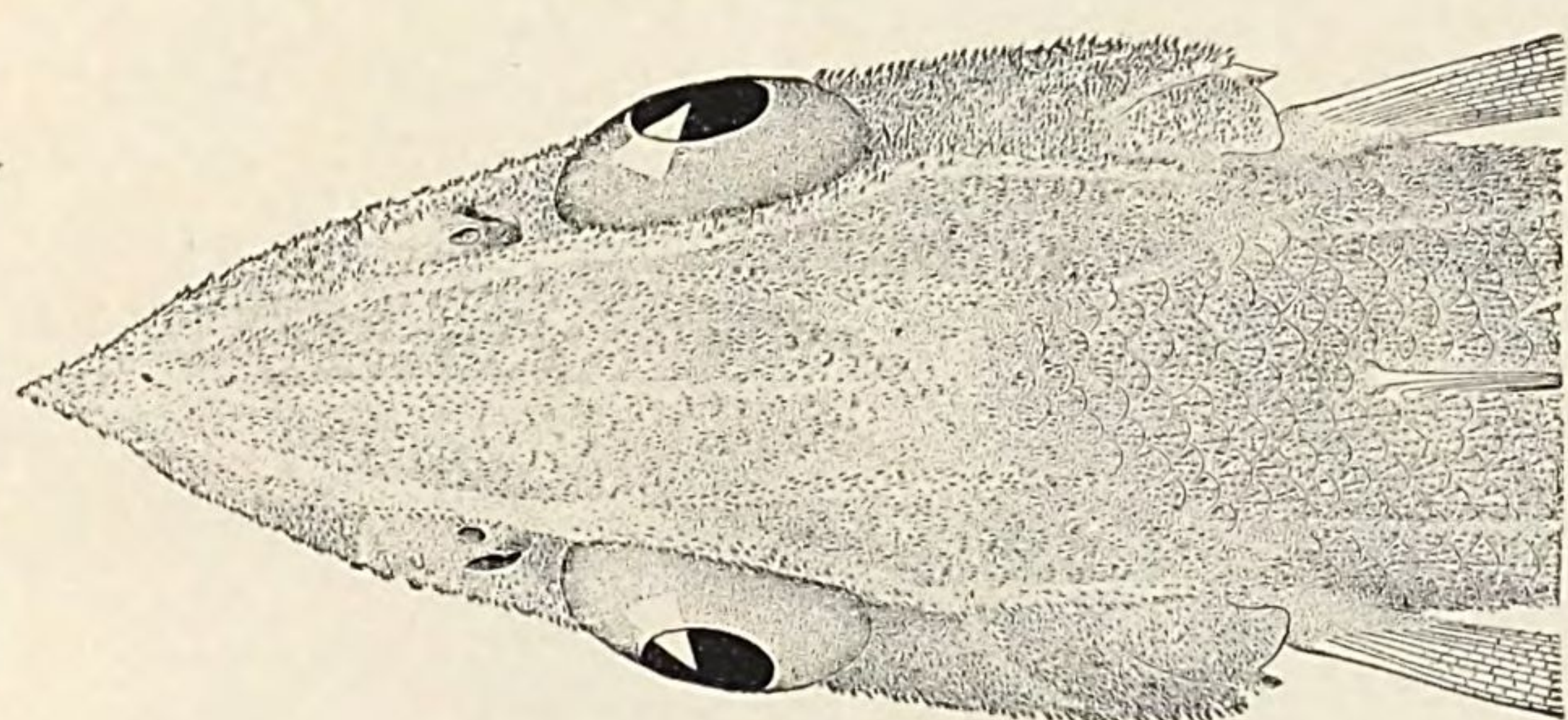
329. *BROSMIUS BROSME*. (p. 385.)



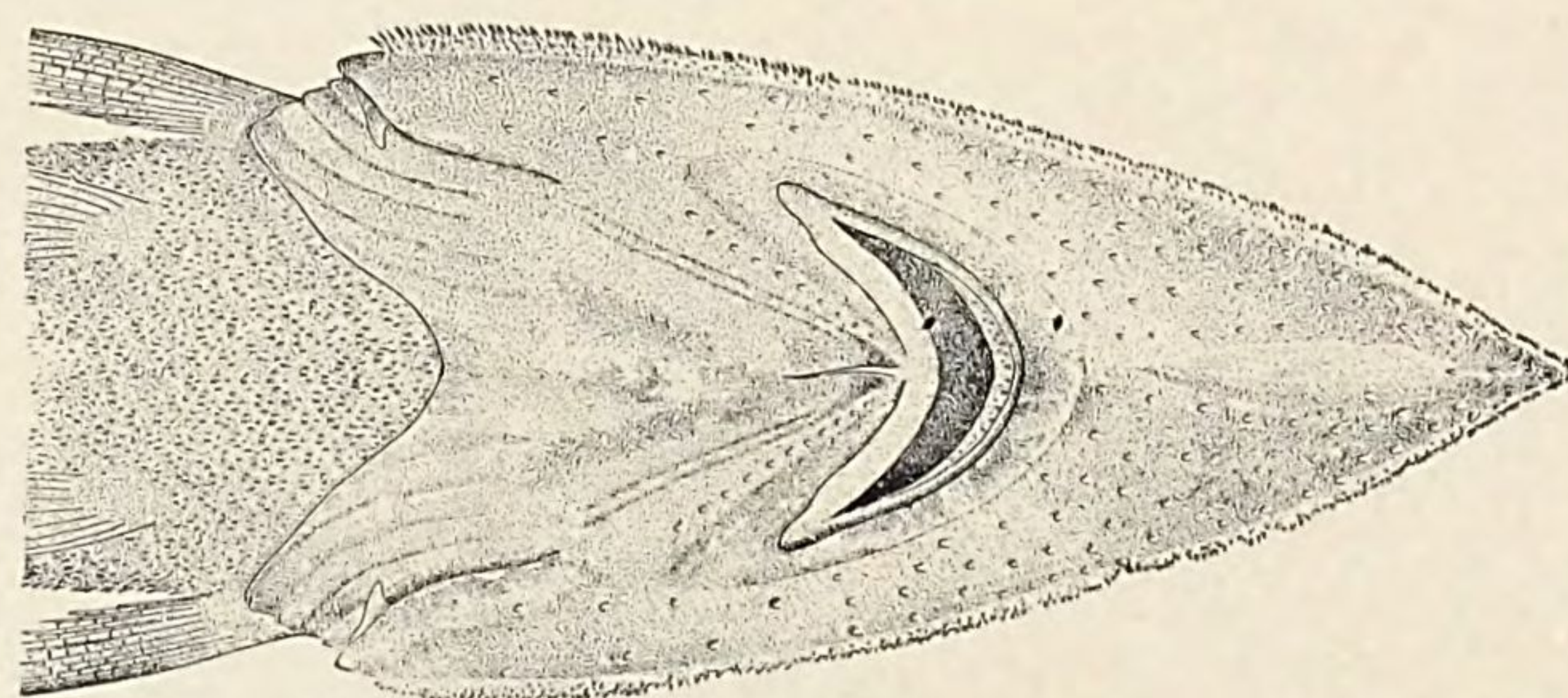
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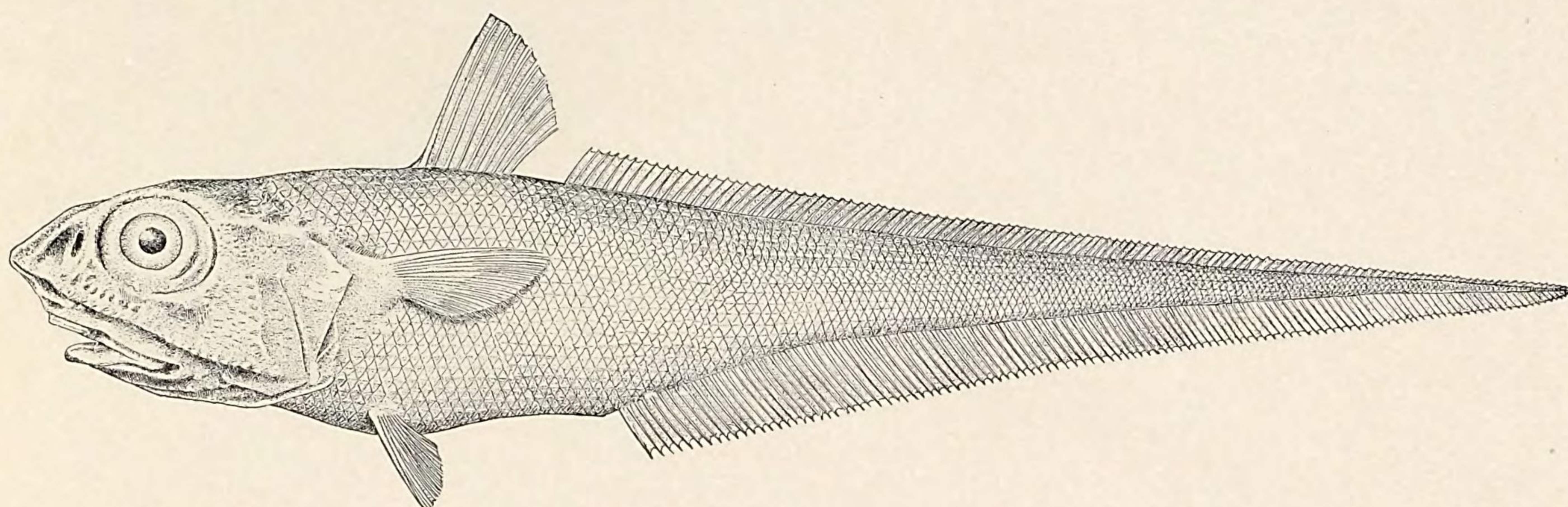


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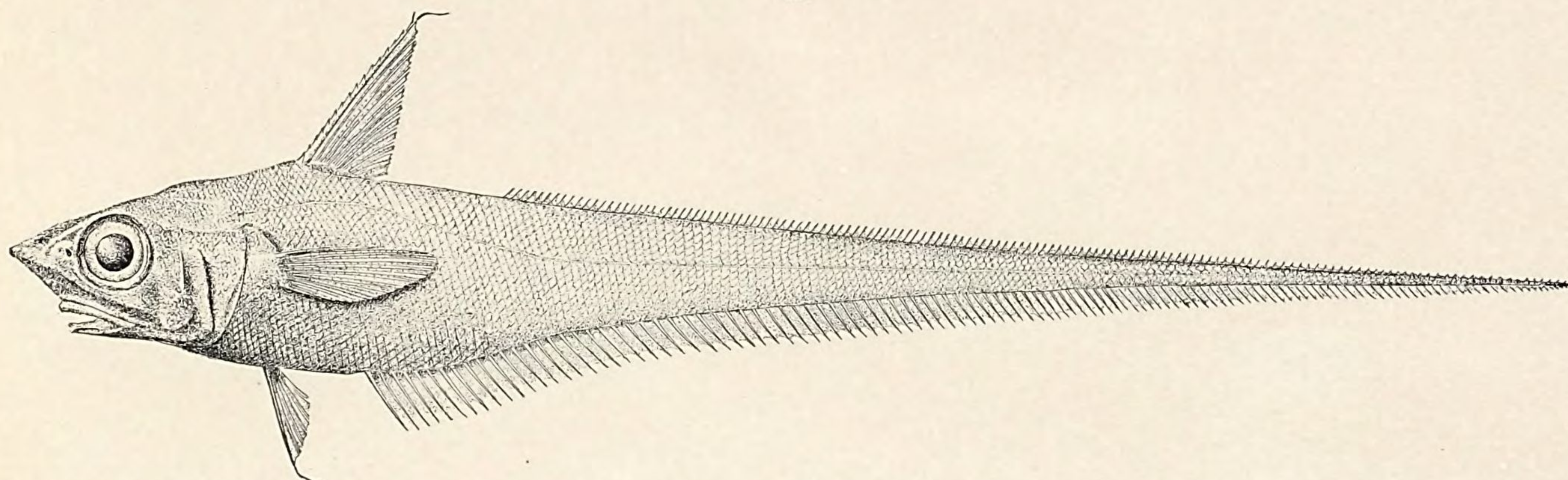
330. MERLUCIUS BILINEARIS. (p. 386.)

331. BREGMACEROS ATLANTICUS. (p. 388.)

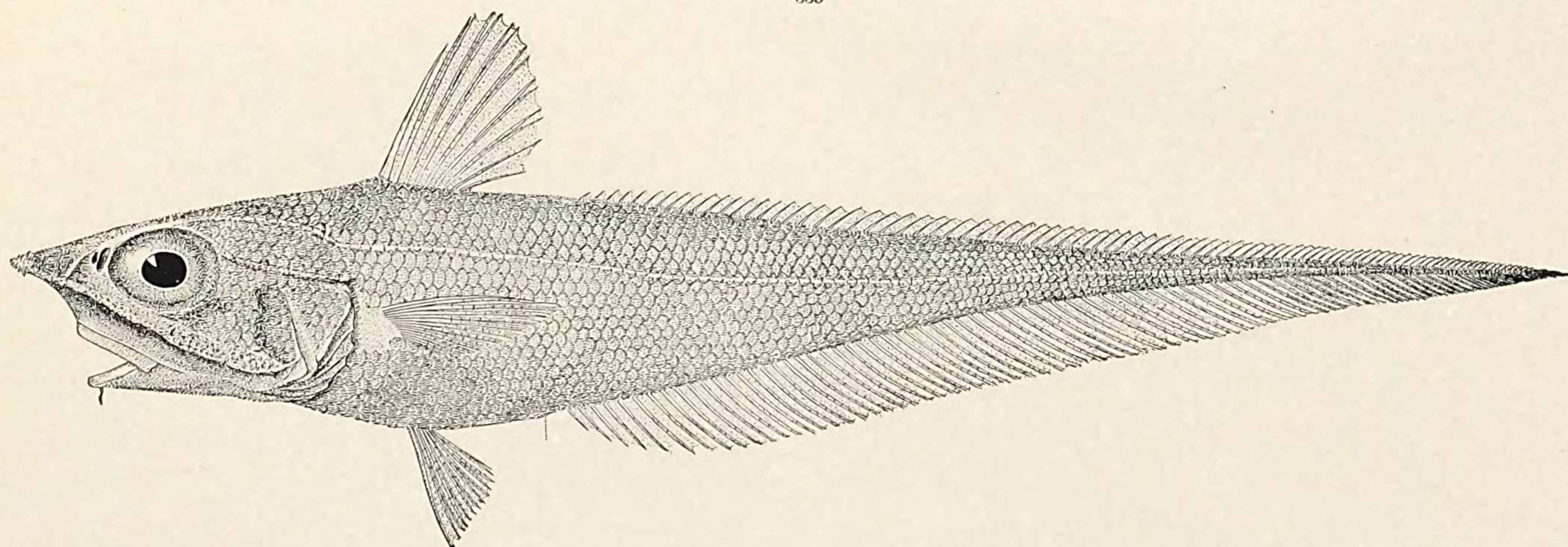
332, 333. CŒLORHYNCHUS OCCA. (p. 400.)



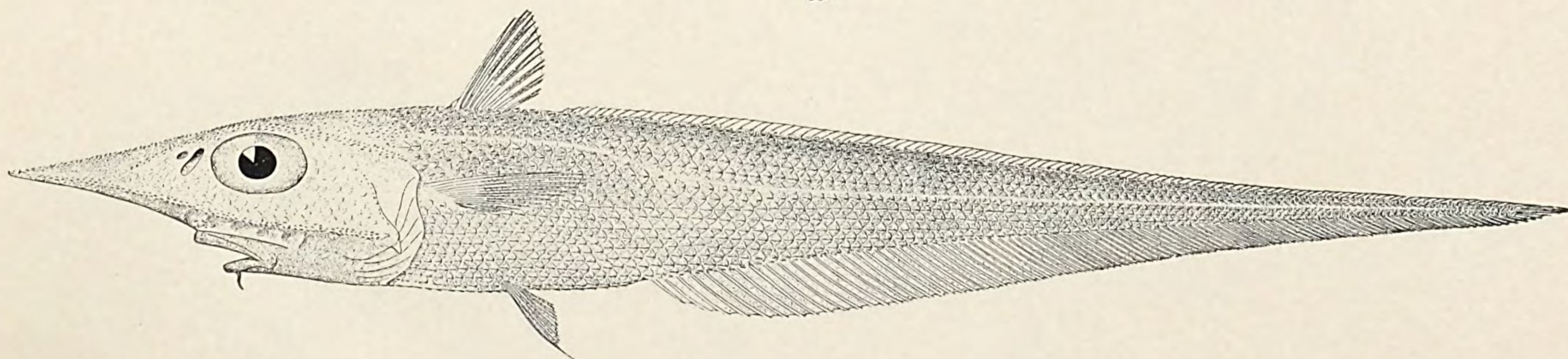
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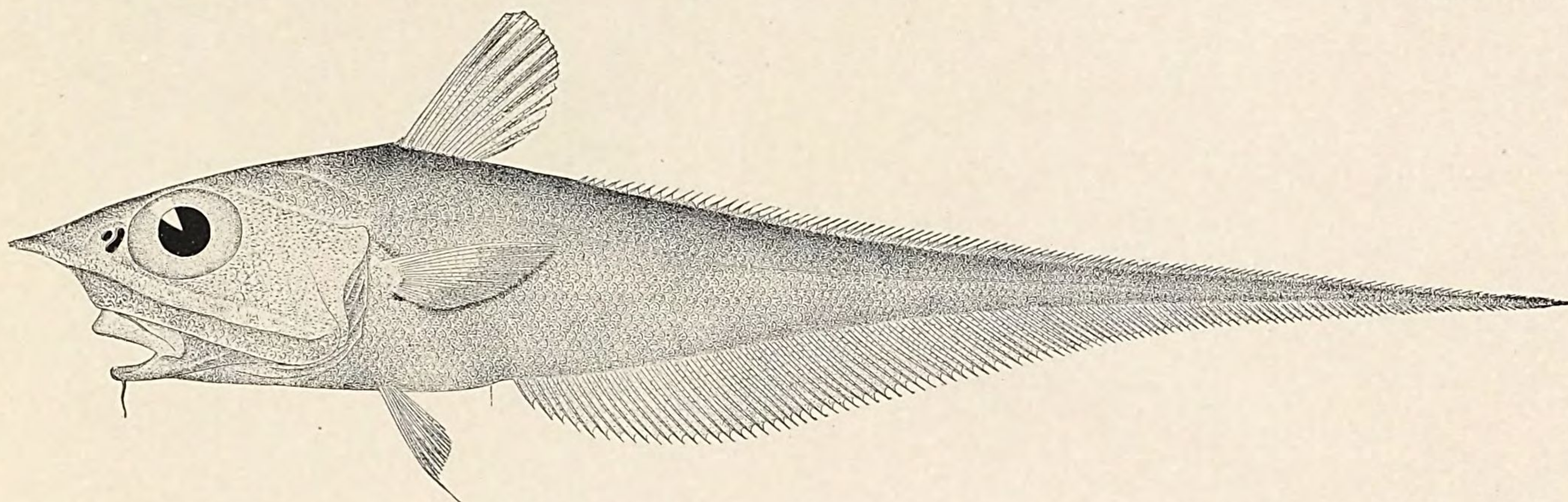
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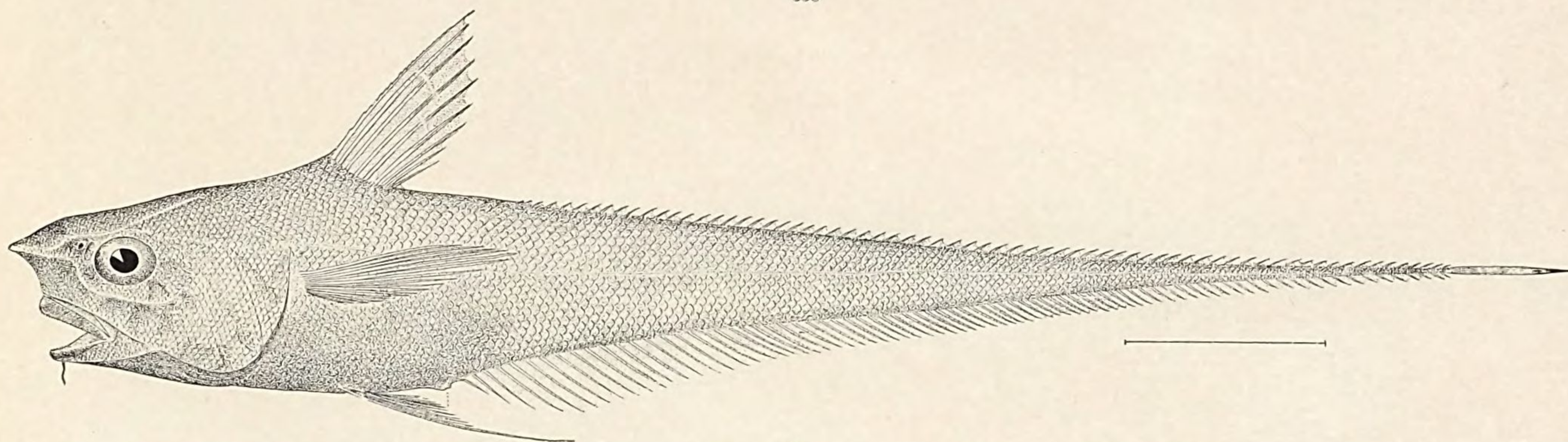
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334. MACRURUS BERGLAX. (p. 391.)
336. CŒLORHYNCHUS CARMINATUS. (p. 398.)

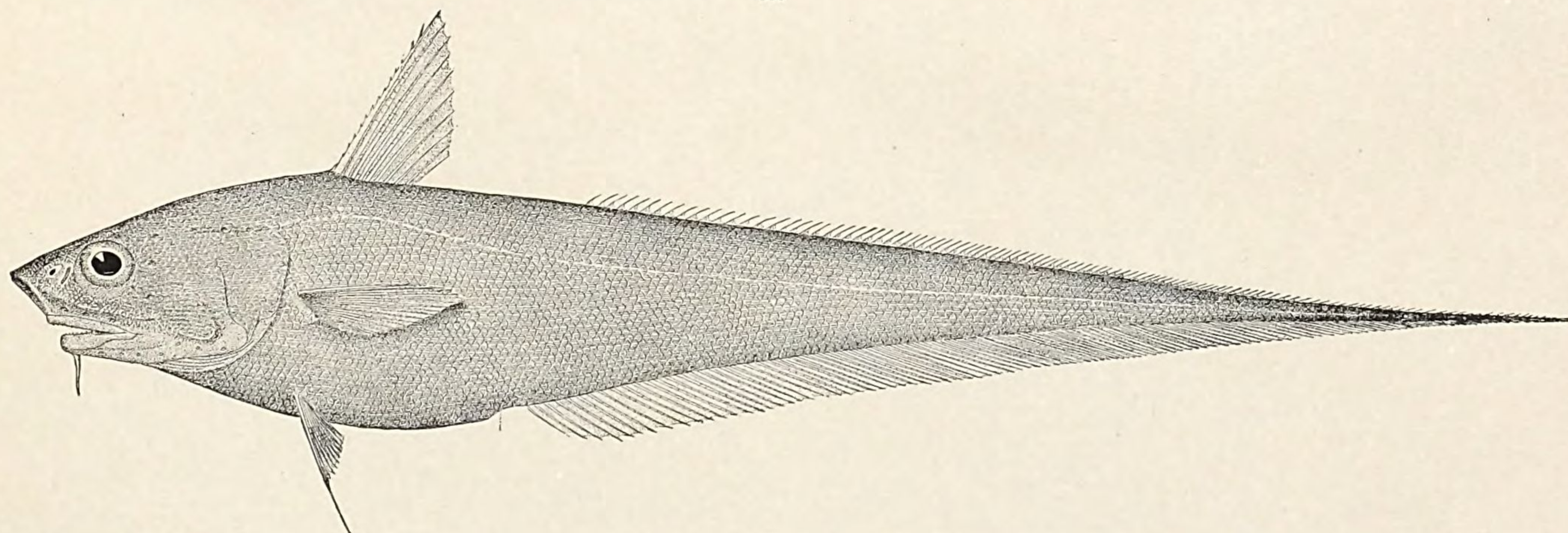
335. MACRURUS BAIRDII. (p. 393.)
337. CŒLORHYNCHUS OCCA. (p. 400.)



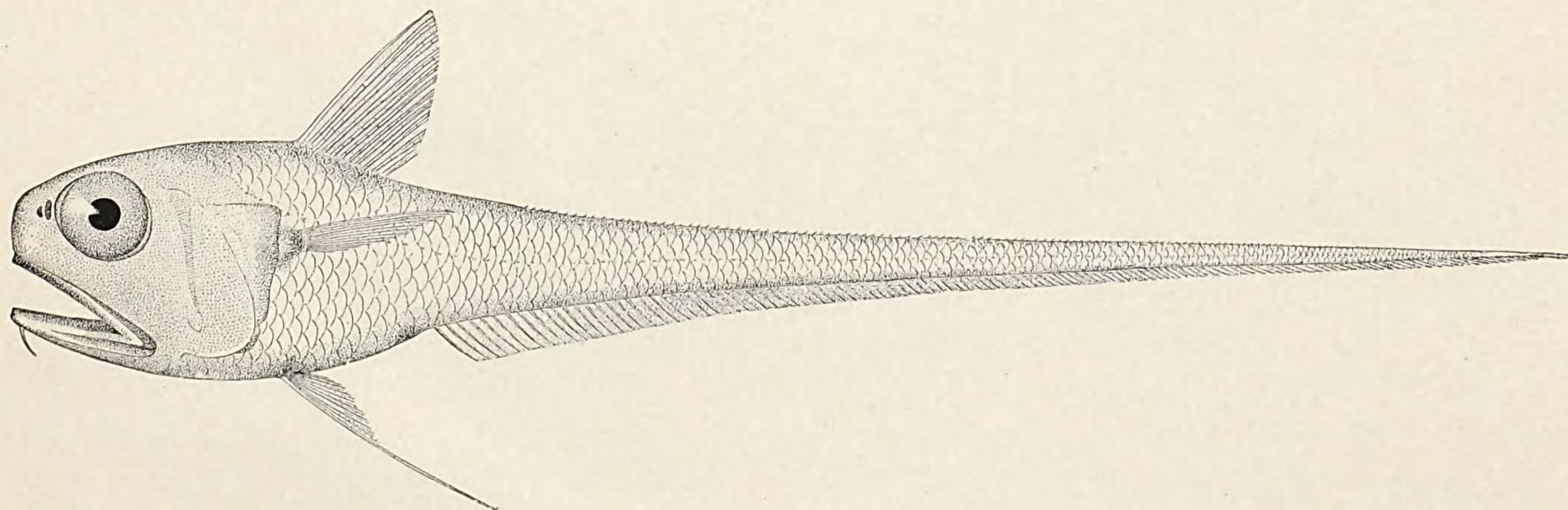
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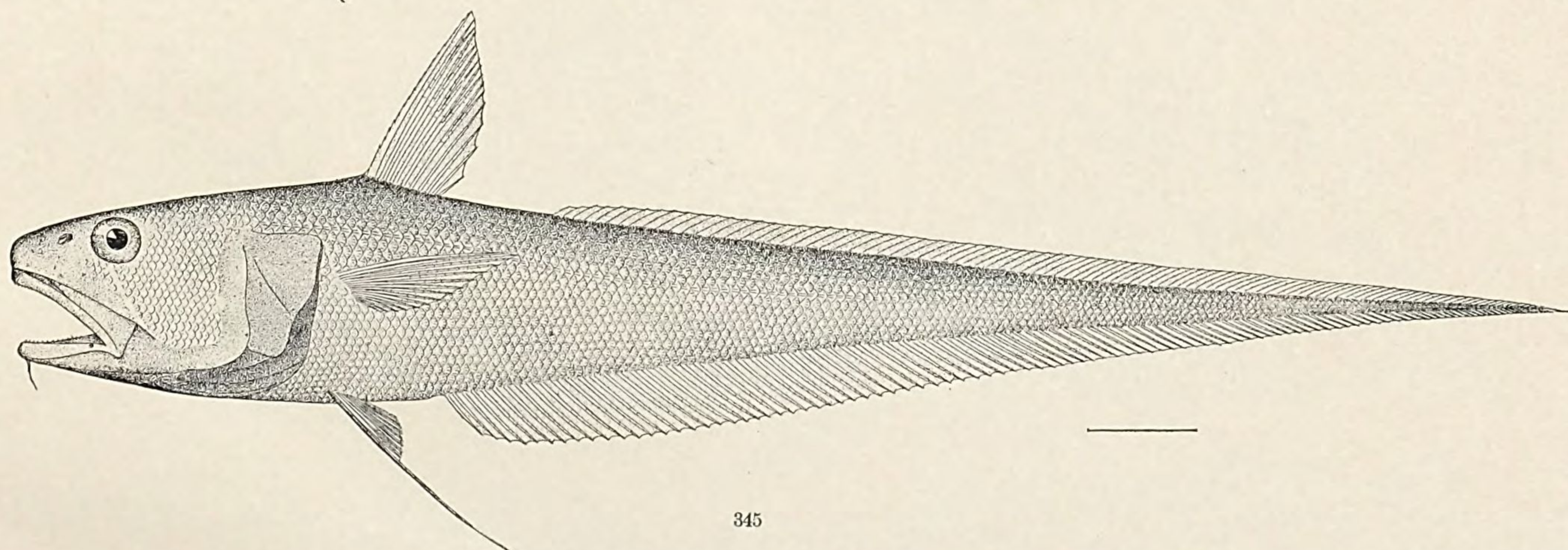
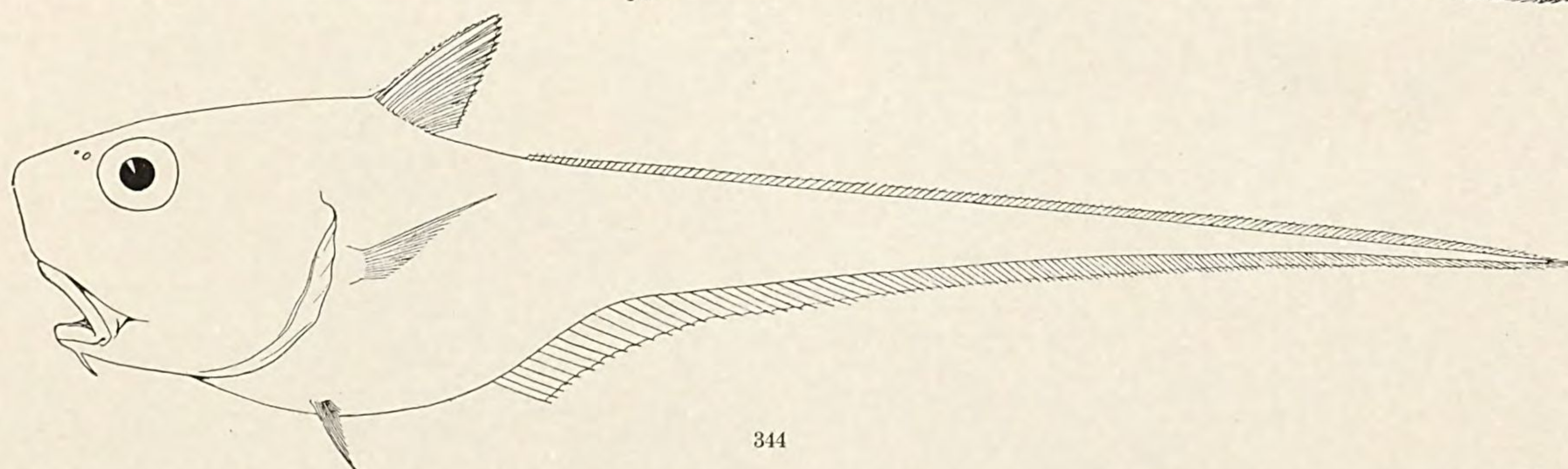
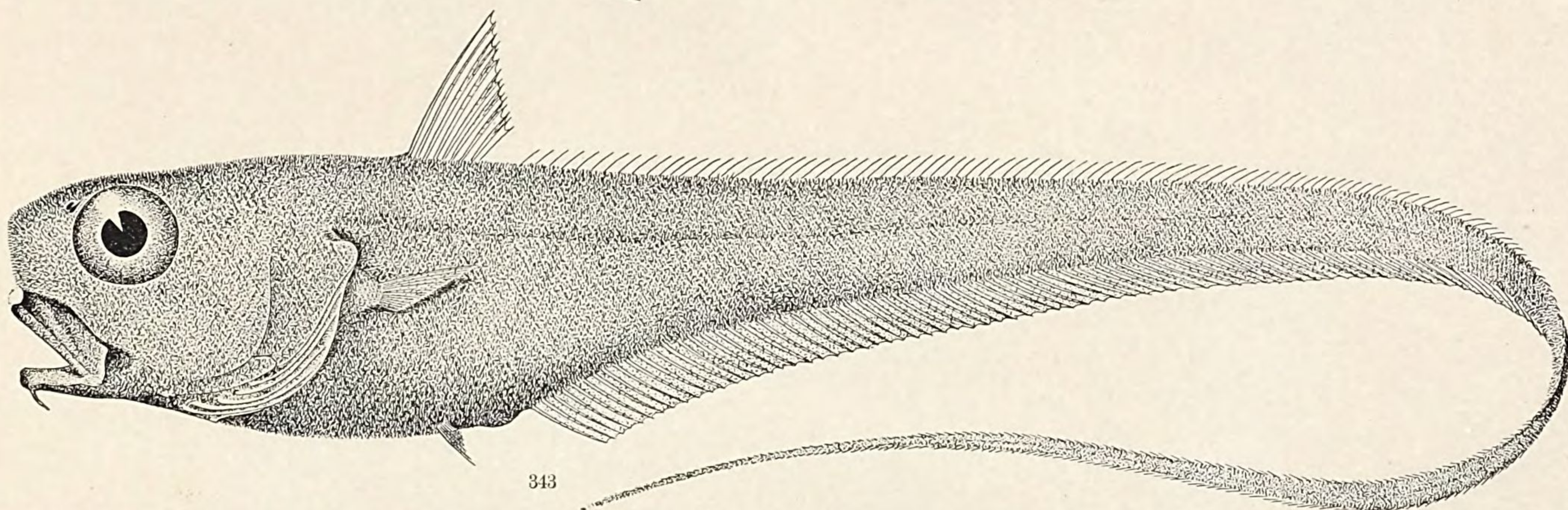
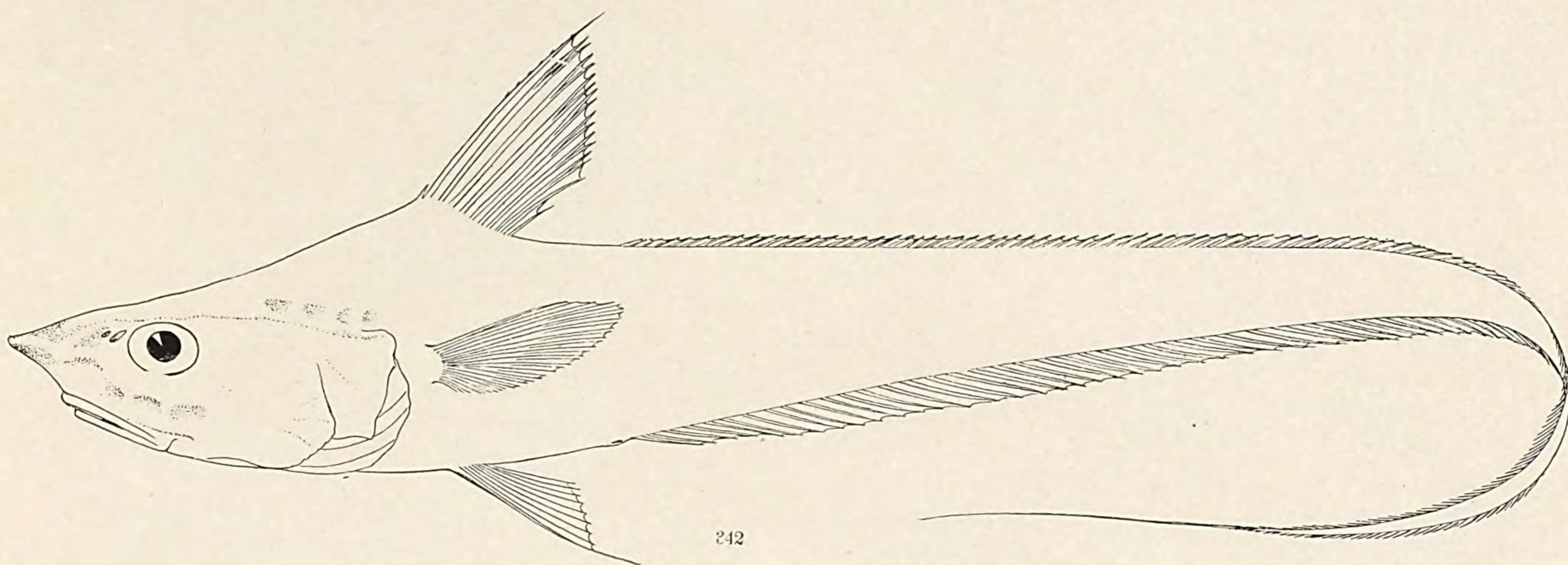
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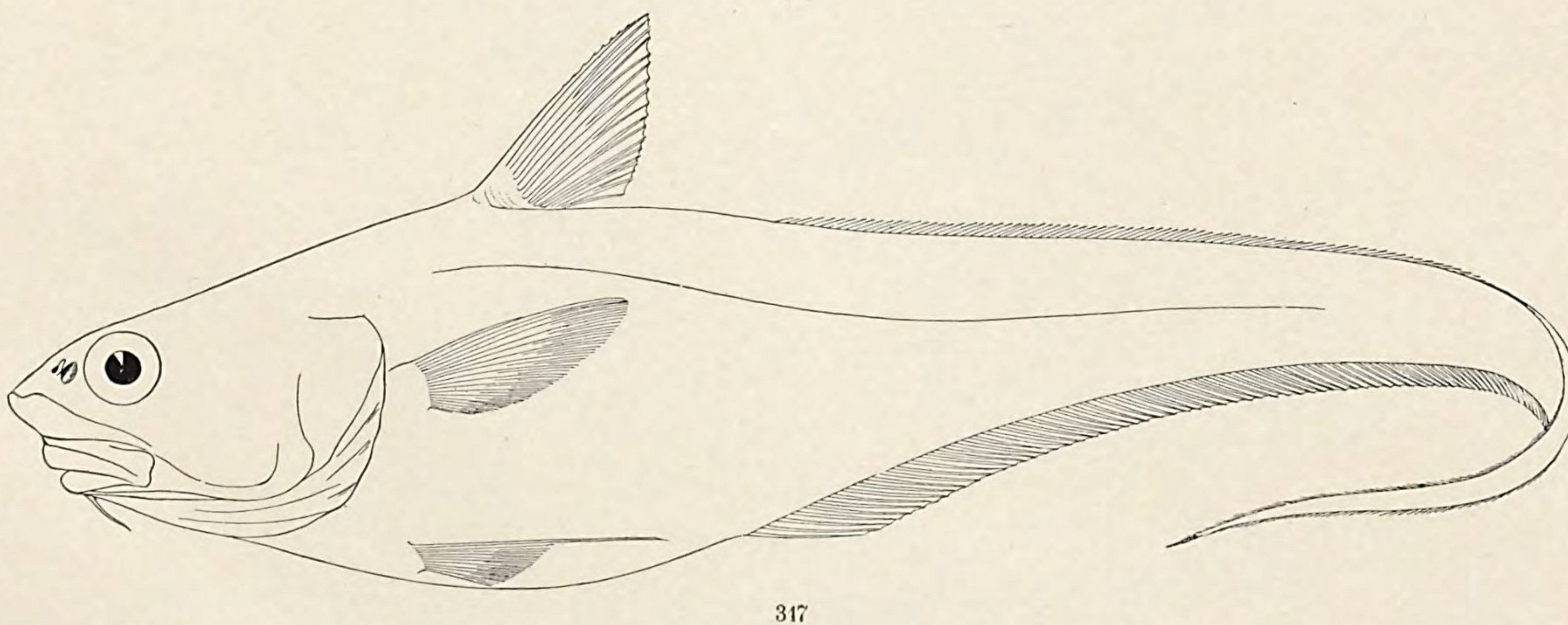
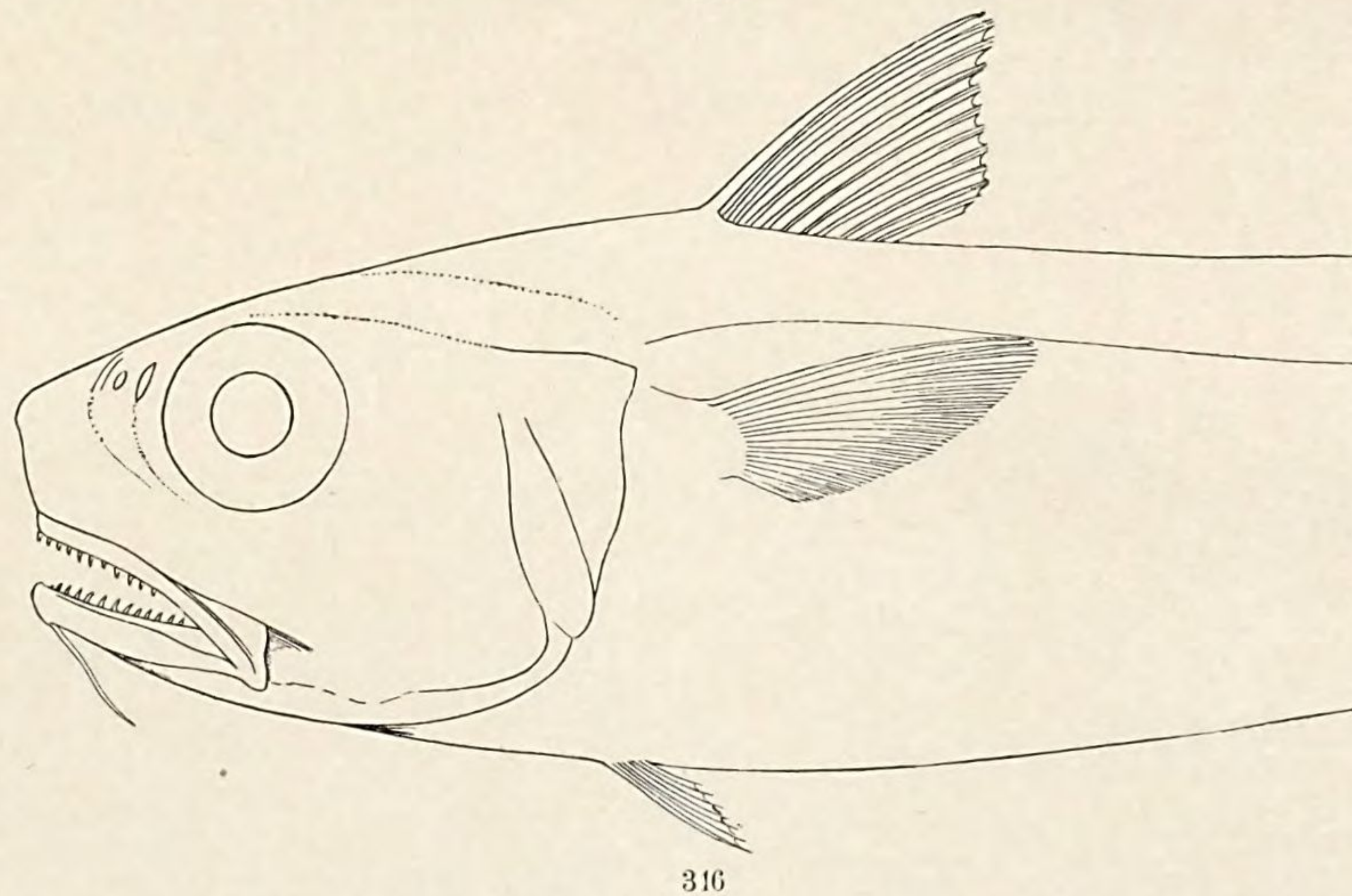
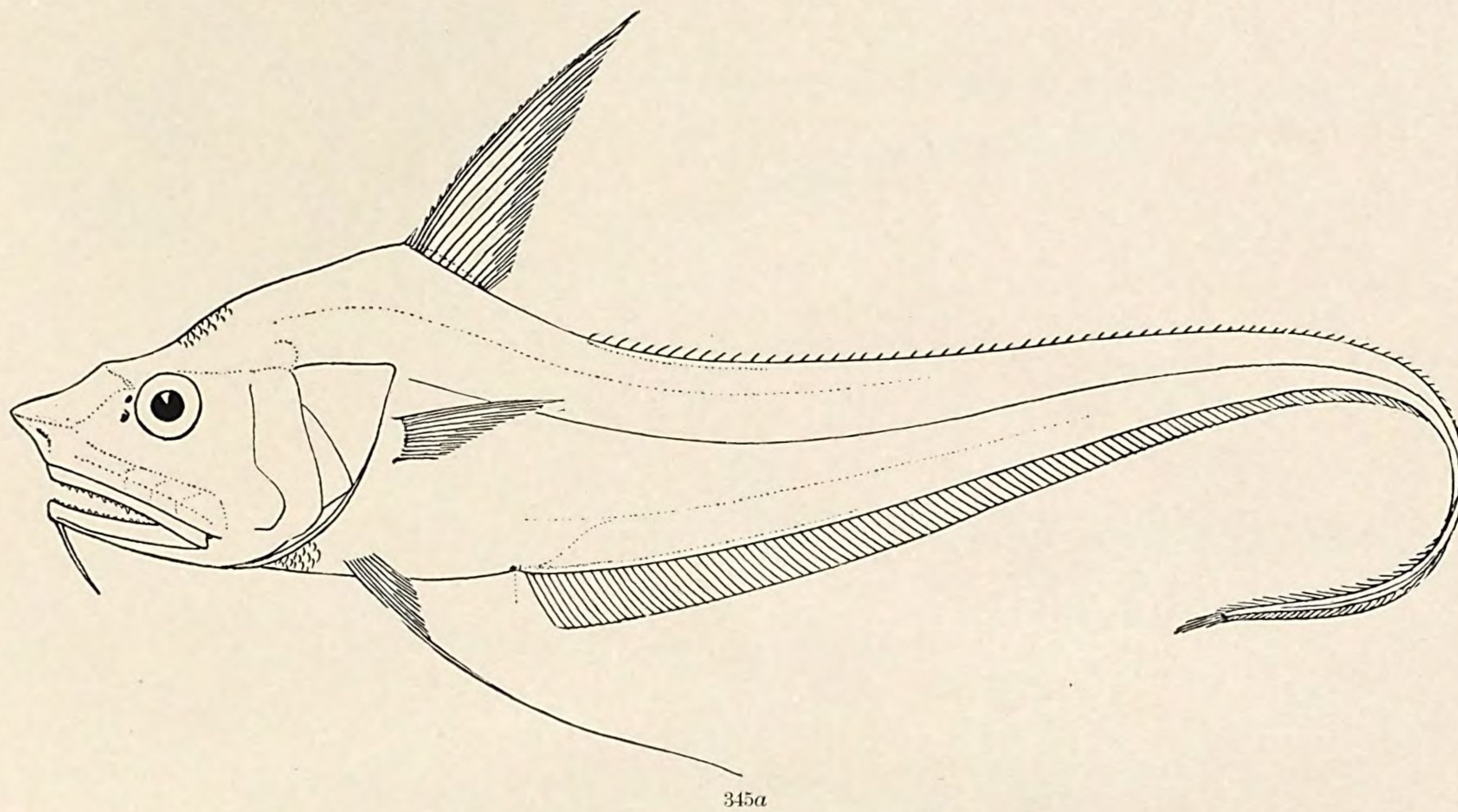
338. *Cœlorhynchus caribbæus*. (p. 401.)
340. *Hymenocephalus goodei*. (p. 407.)

339. *Coryphænoides carapinus*. (p. 404.)
341. *Hymenocephalus cavernosus*. (p. 408.)

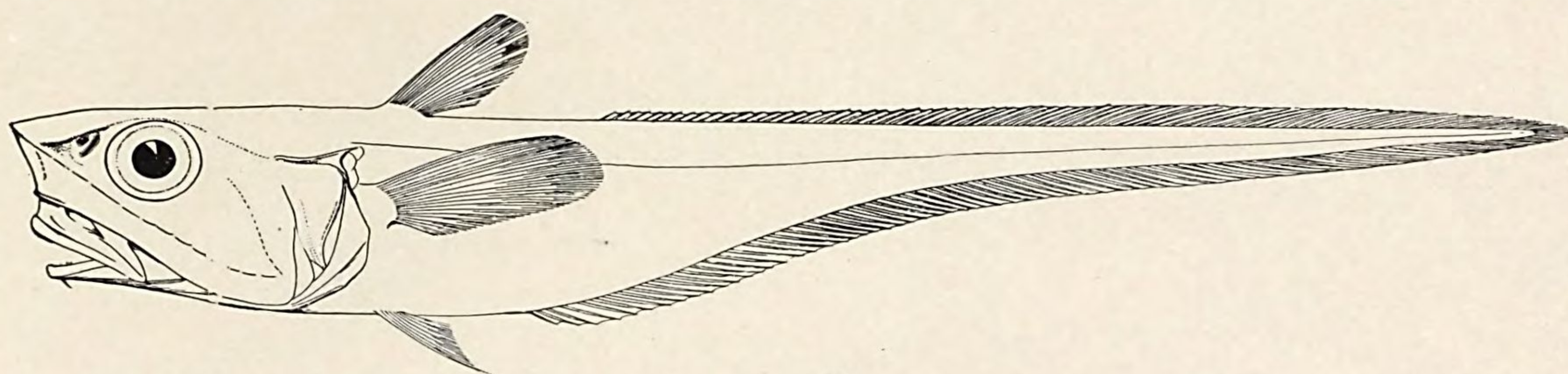


342. *LIONURUS FILICAUDA*. (p. 409.)
344. *CETONURUS GLOBICEPS*. (p. 411.)

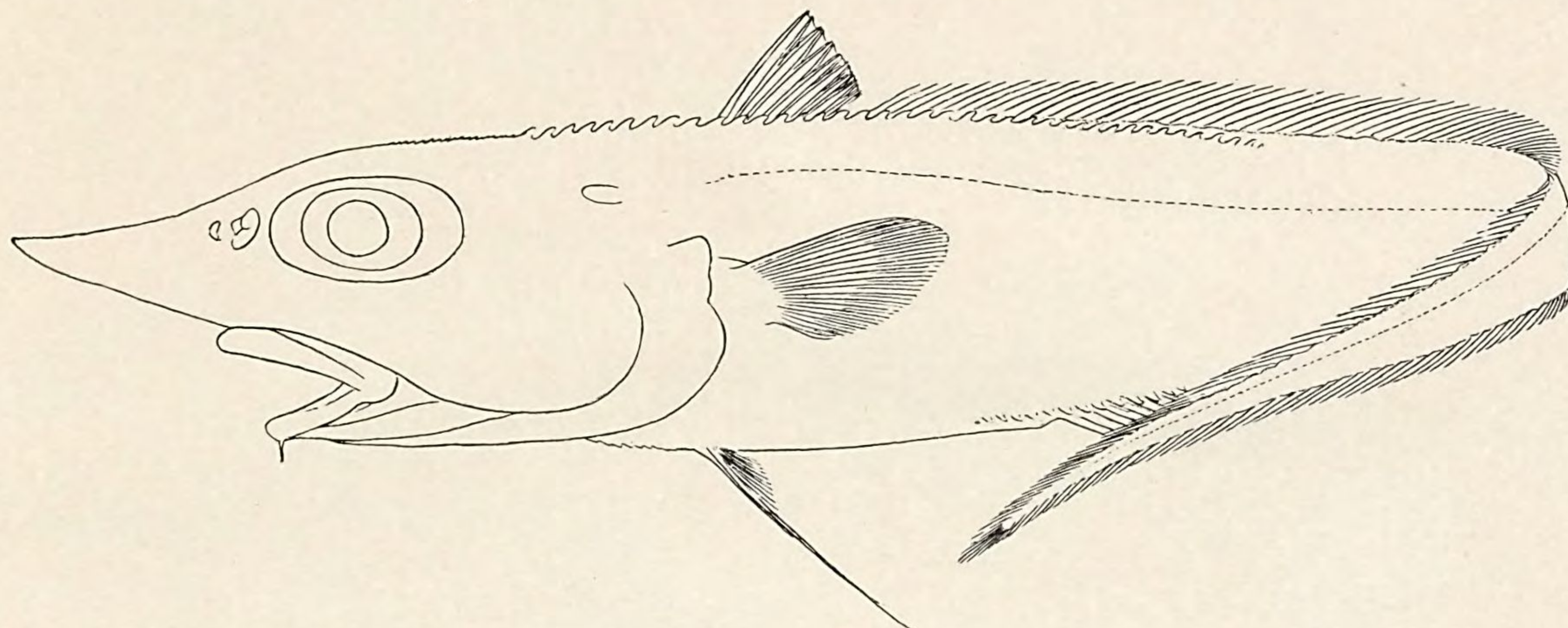
343. *TRACHONURUS SULCATUS*. (p. 410.)
345. *CHALINURA SIMULA*. (p. 412.)



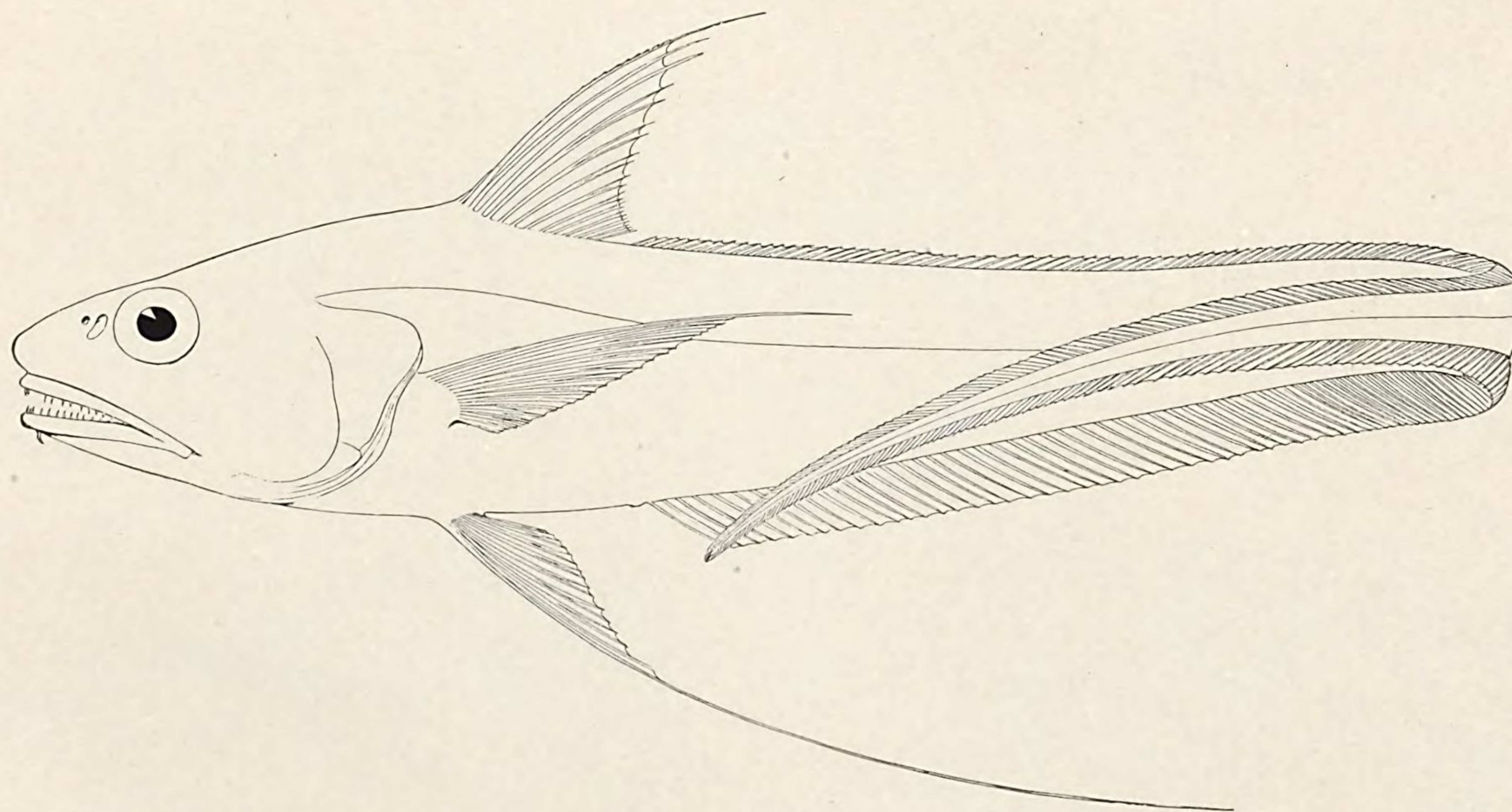
345a. *CHALINURA MEDITERRANEA*. (p. 525.)
346. *NEMATONURUS GIGAS*. (p. 416.)
347. *MOSELEYA LONGIFILIS*. (p. 417.)



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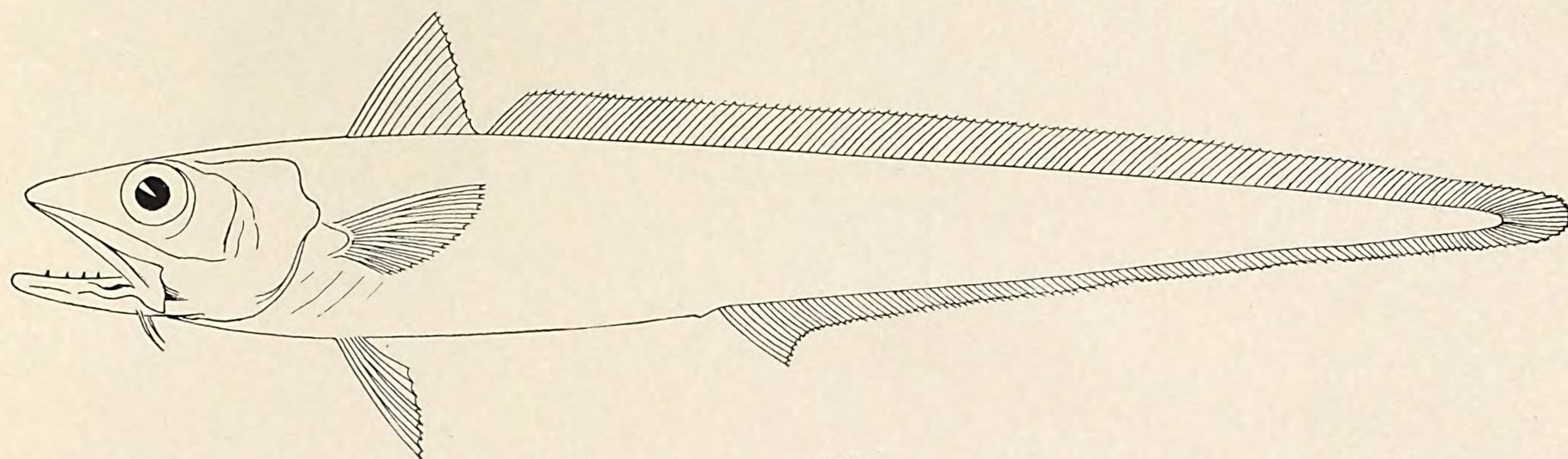


349a

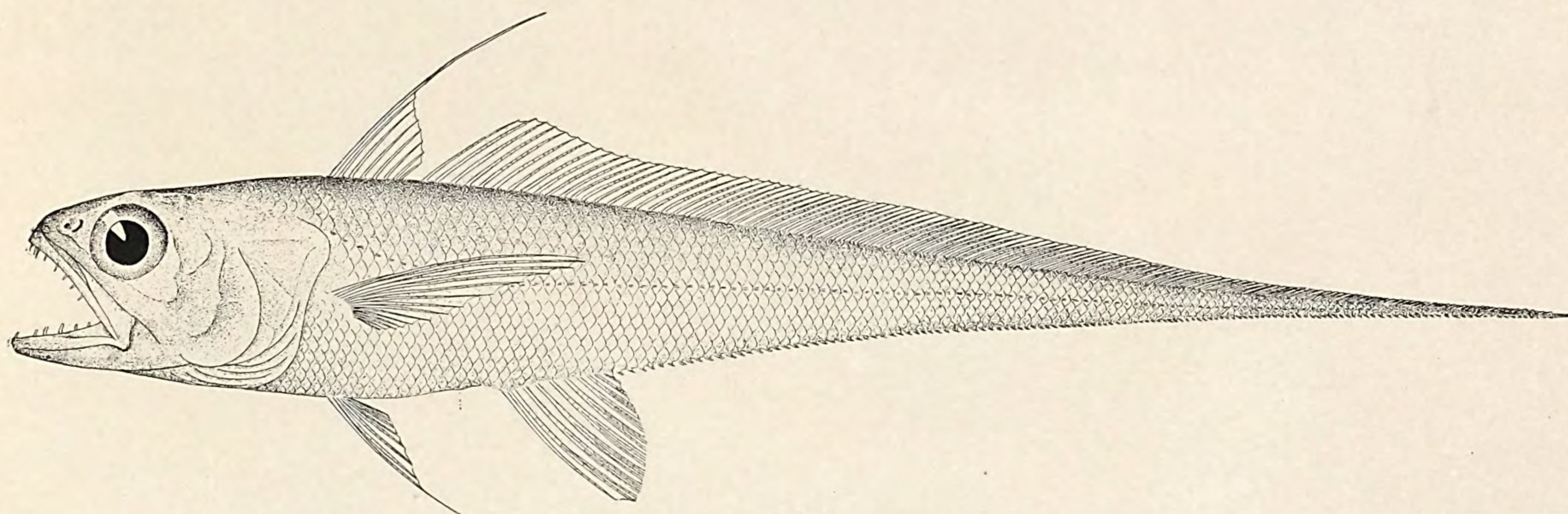
348. *ABYSSICOLA MACROCHIRA*. (p. 417.)

349. *TRACHYRHYNCHUS SCABRUS*. (p. 417.)

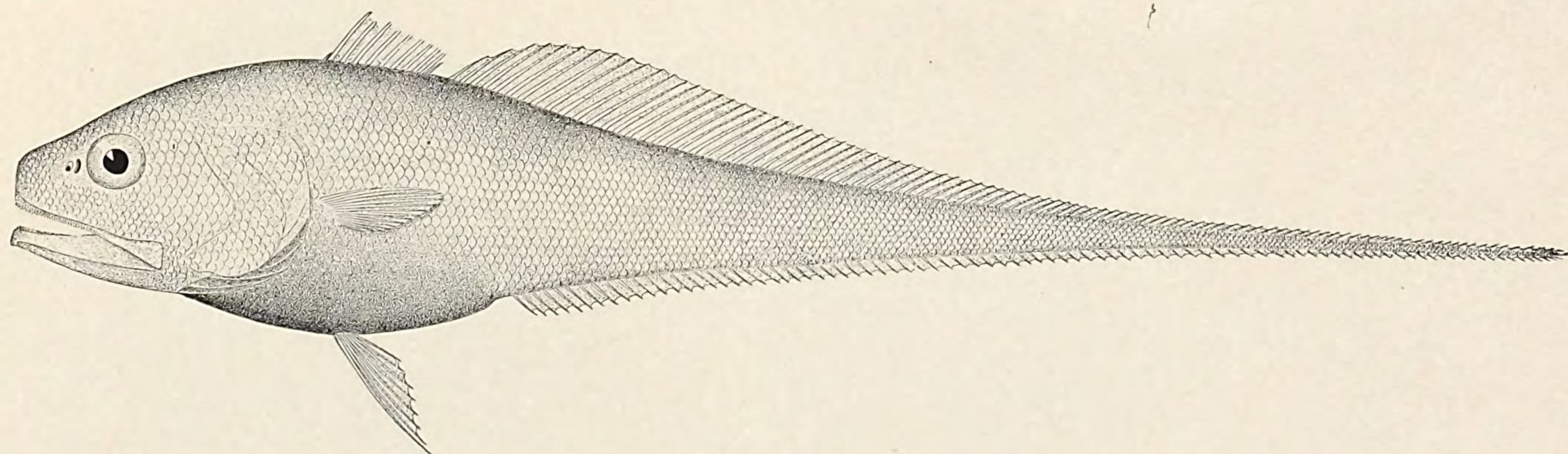
349a. *MACRURUS LONGIFILIS*. (p. 417.)



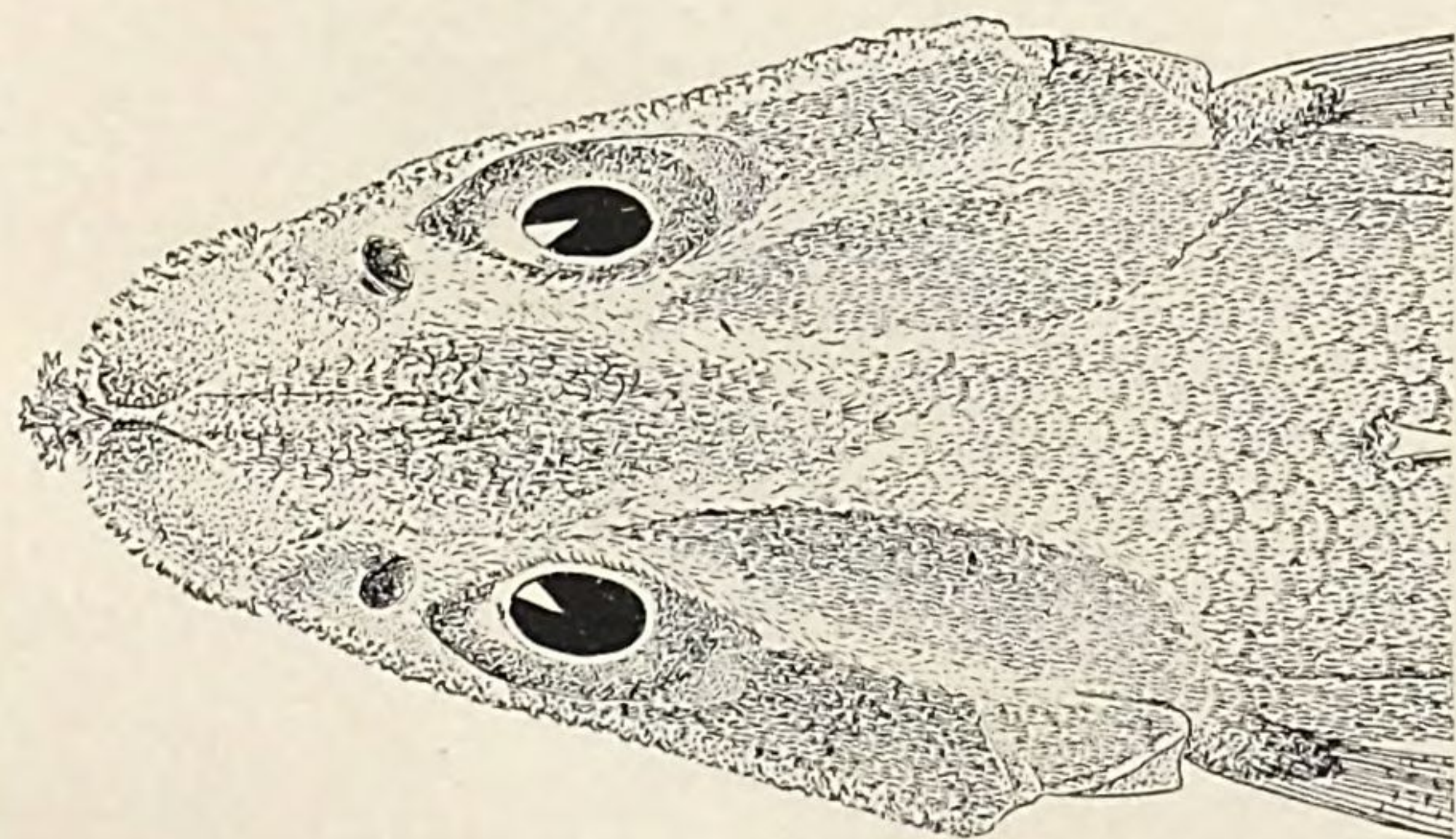
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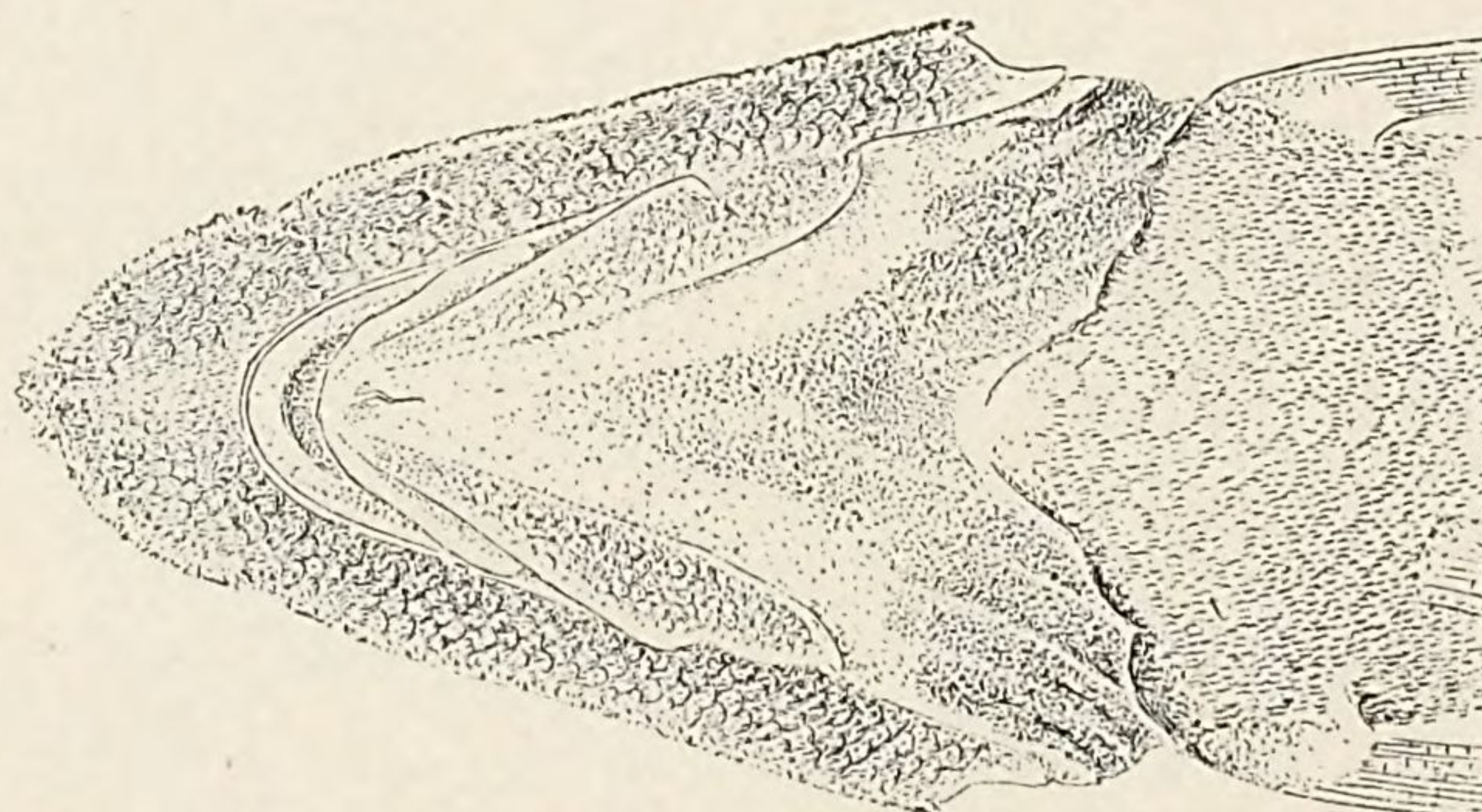
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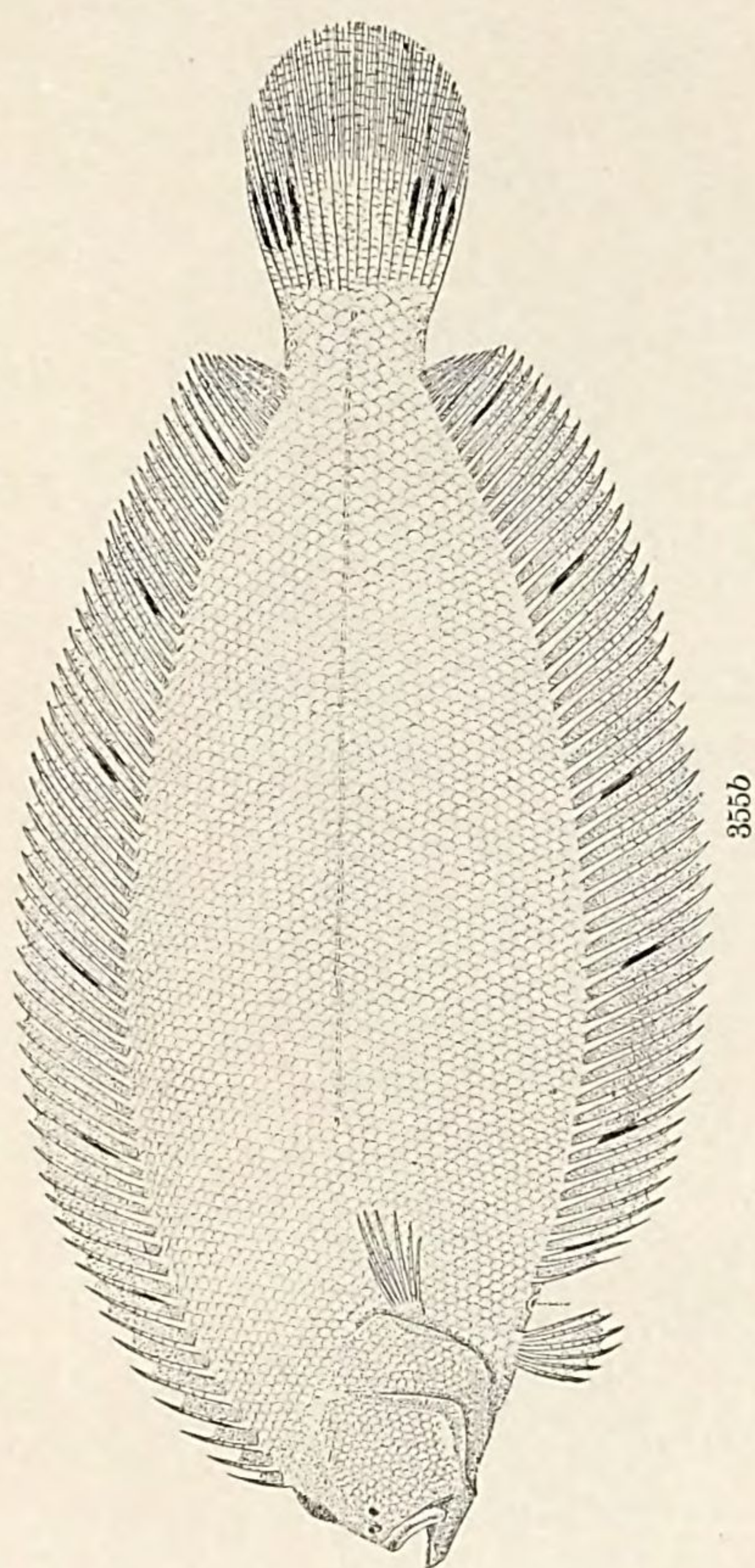
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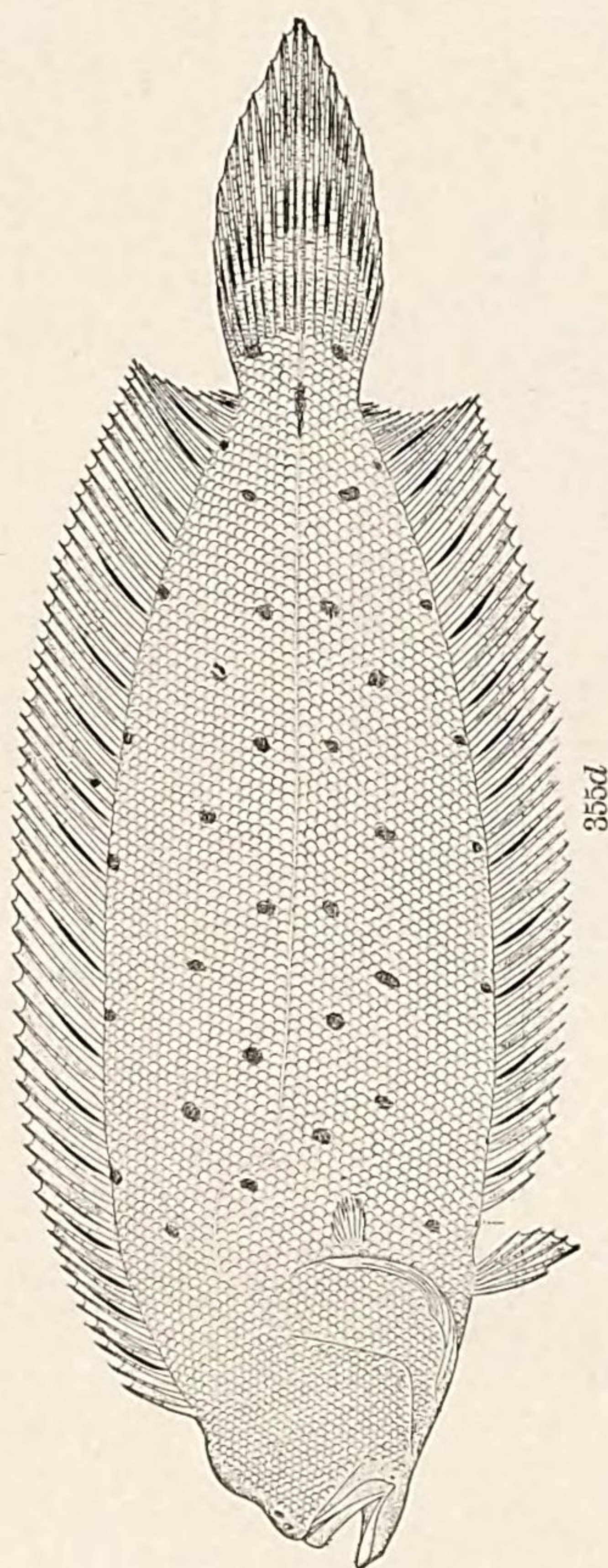
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350. MACRURONUS NOVÆ-ZELANDIÆ. (p. 418.)
352. BATHYGADUS FAVOSUS. (p. 420.)

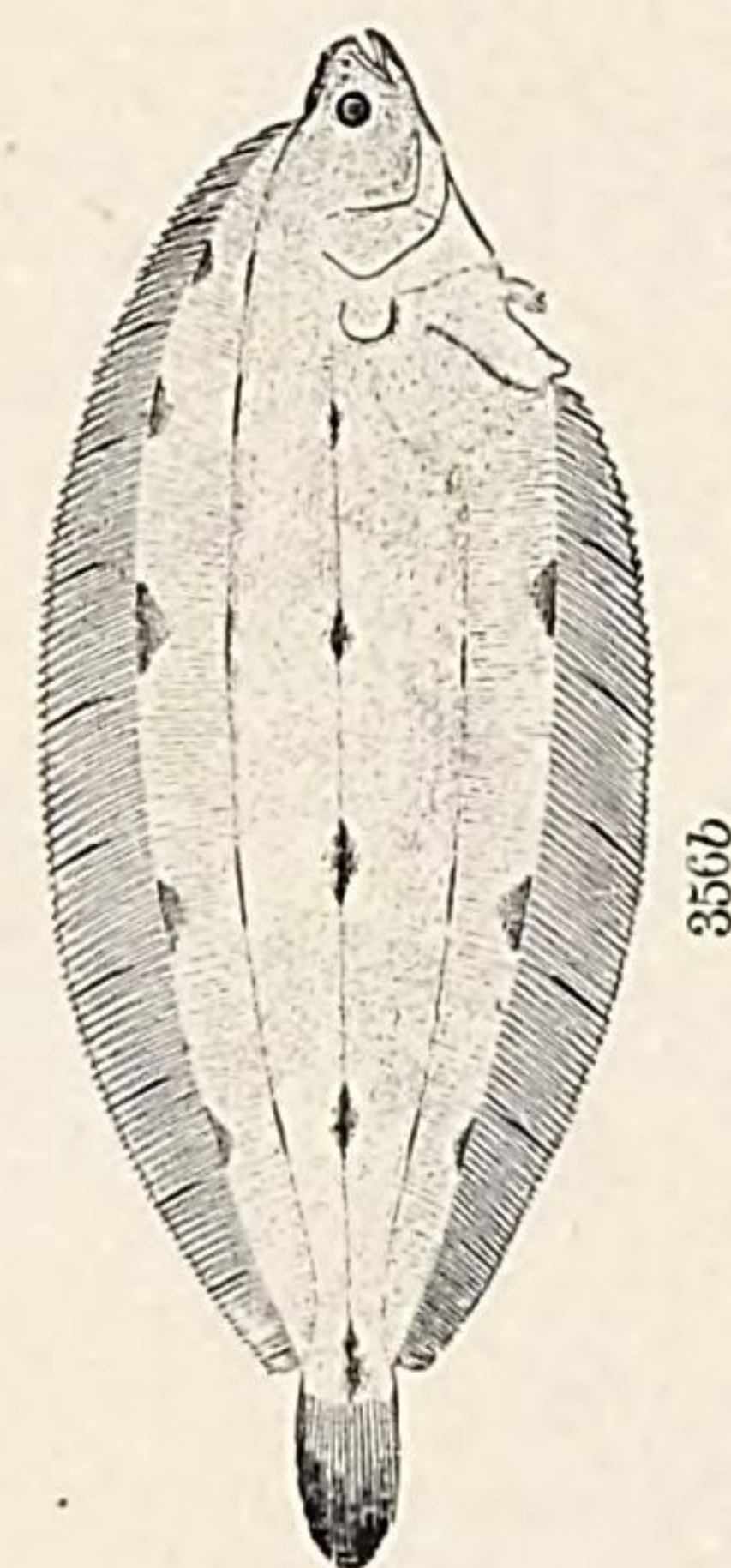
351. STEINDACHNERIA ARGENTEA. (p. 419.)
353, 354. CŒLORHYNCHUS CARMINATUS. (p. 398.)



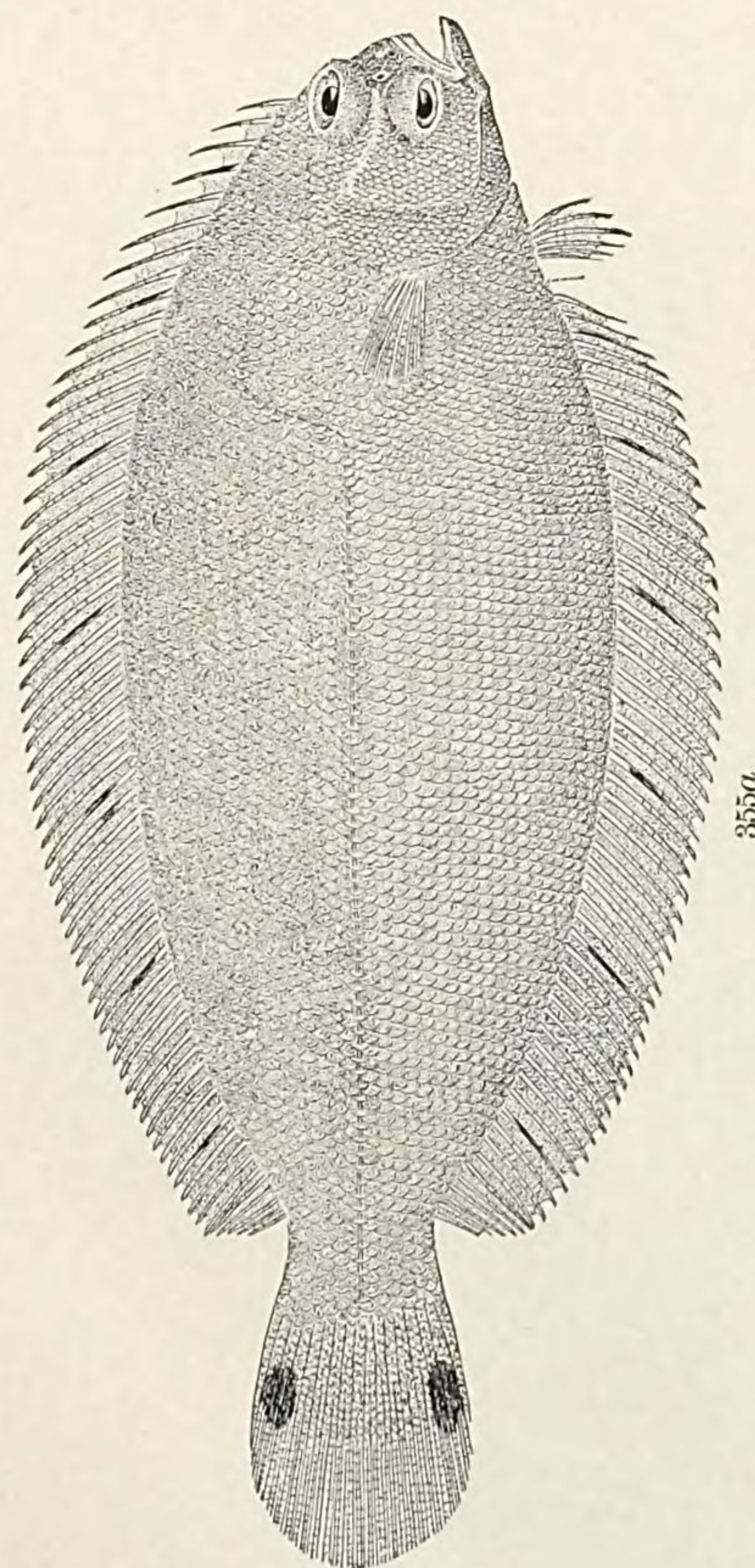
355b



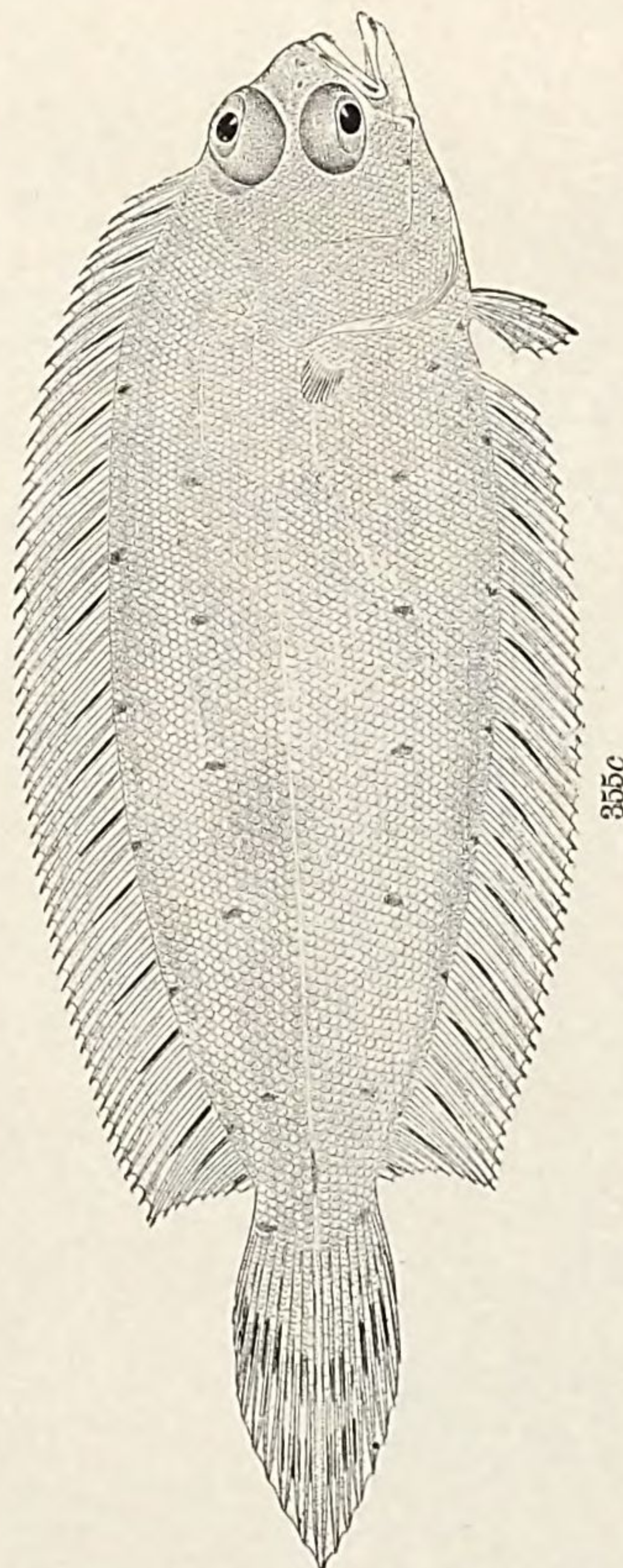
355d



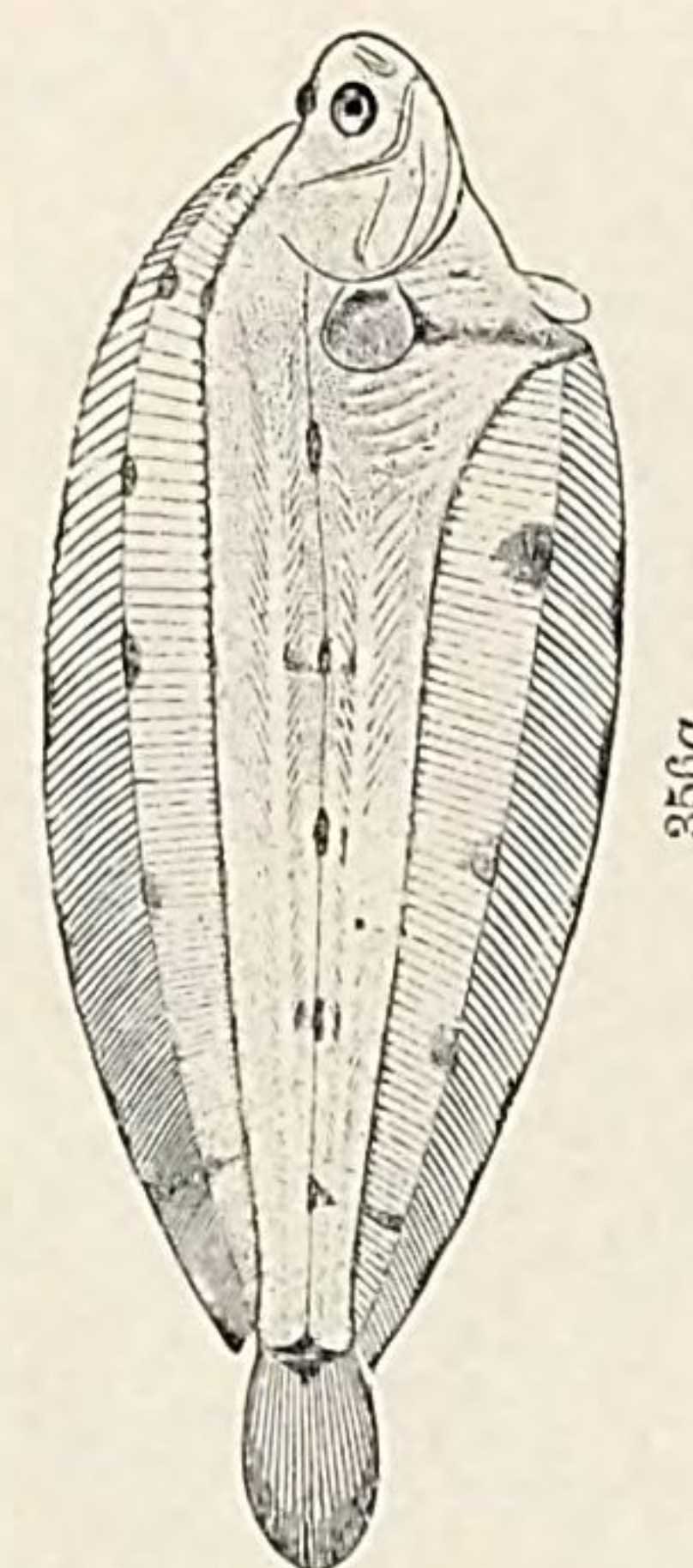
356b



355a



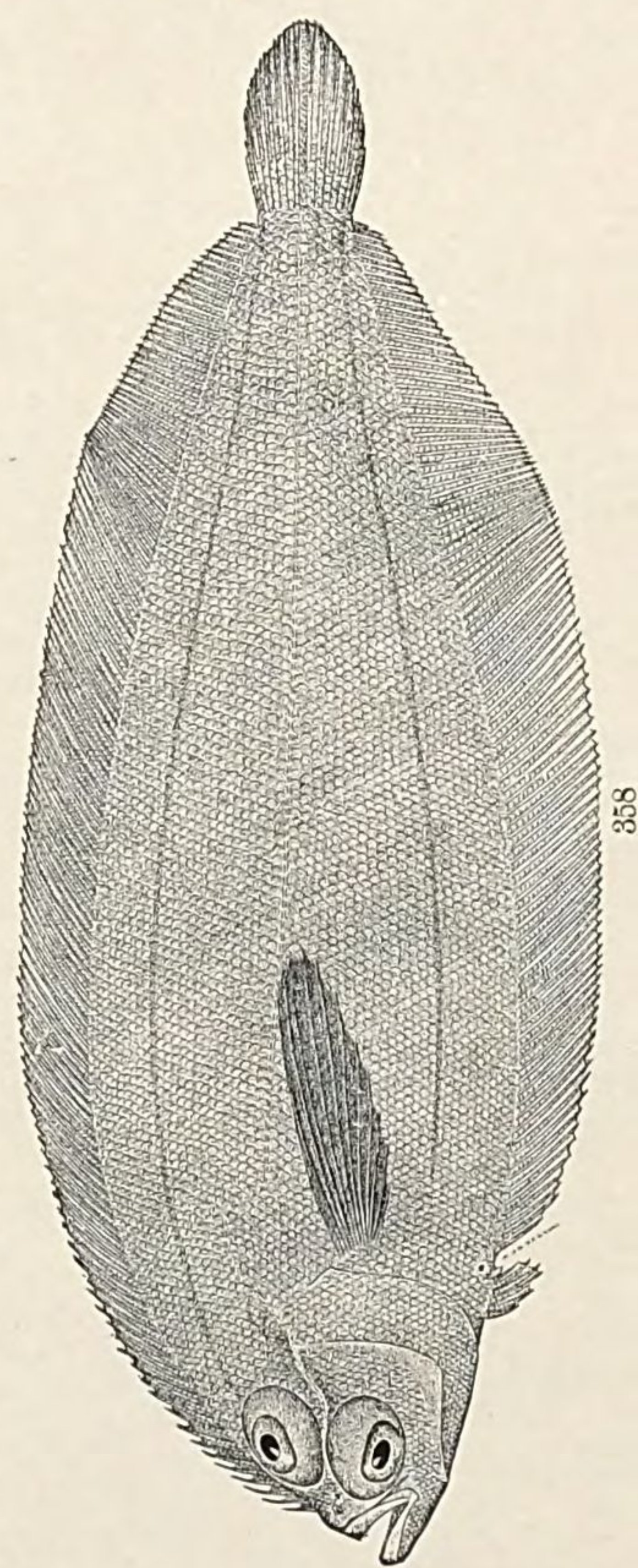
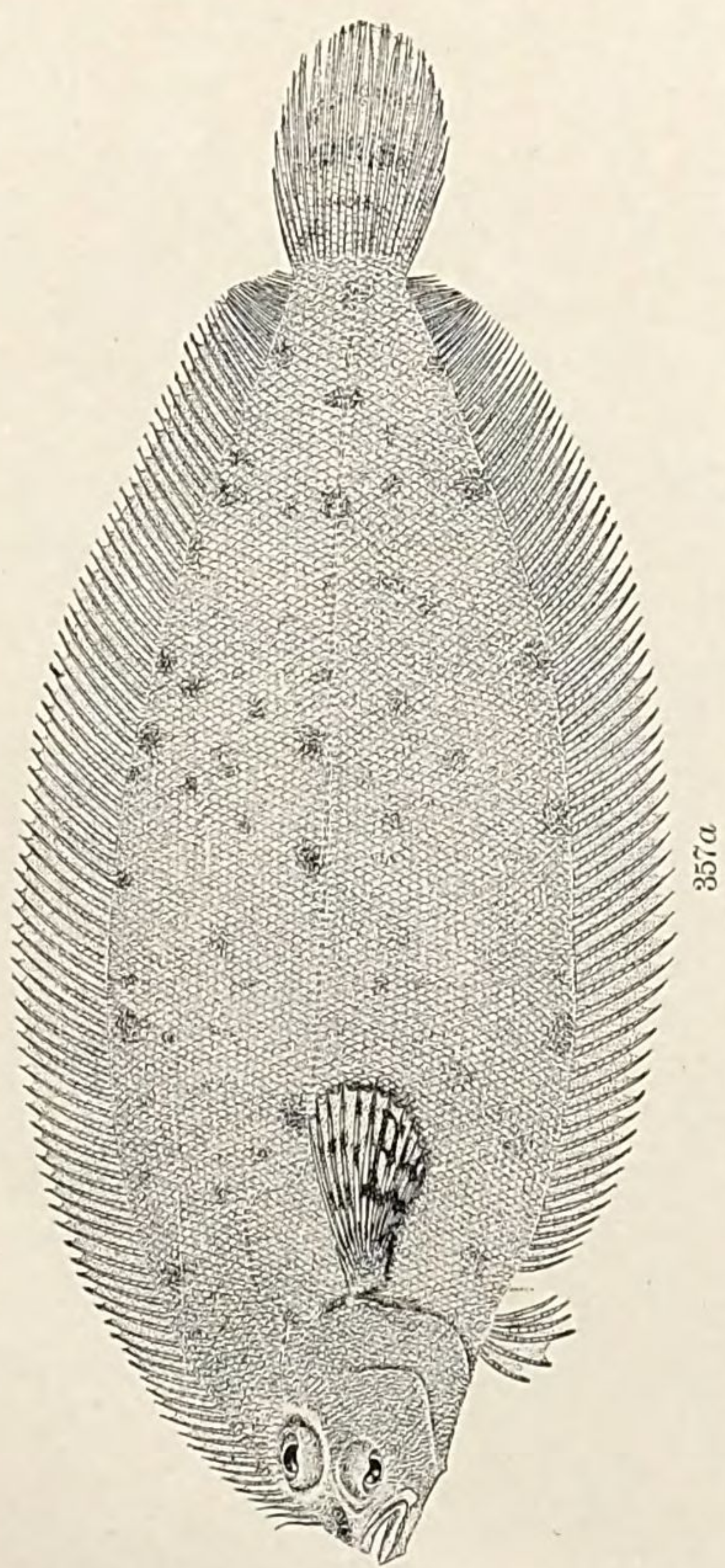
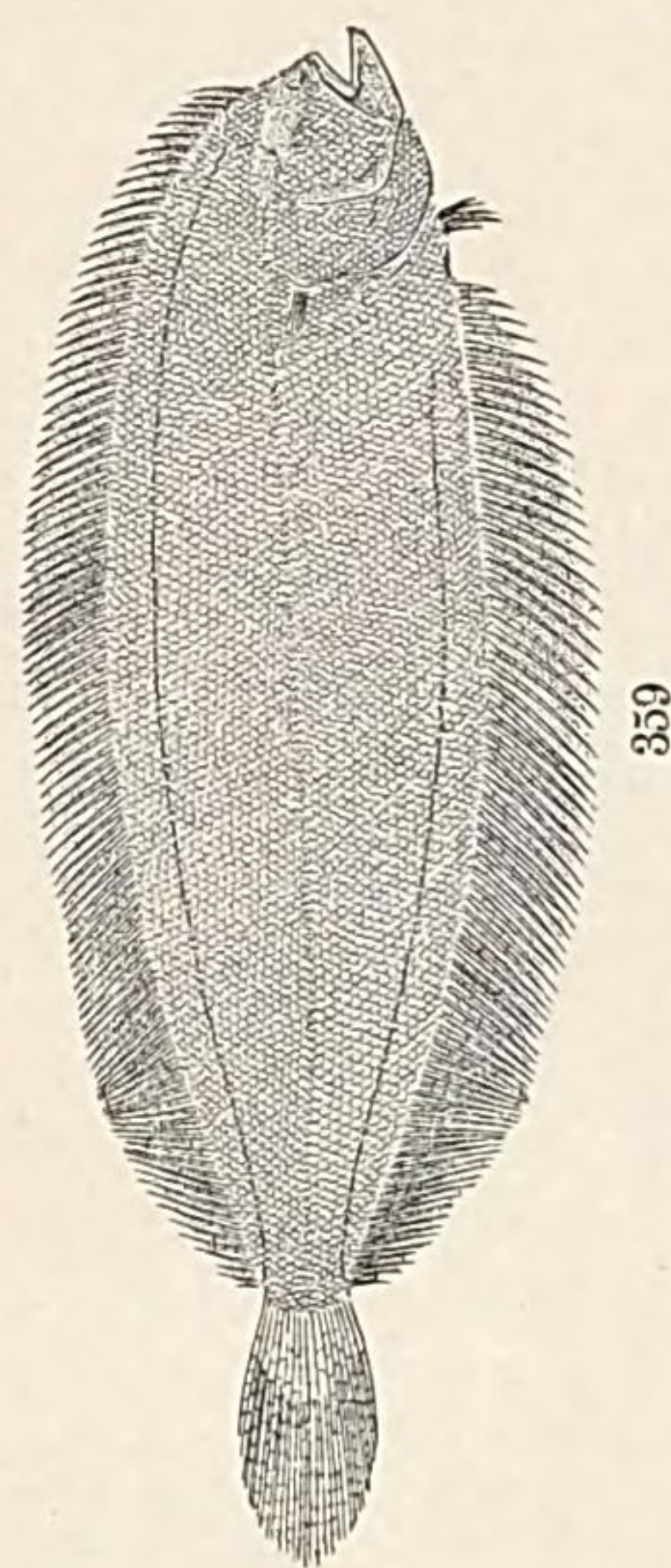
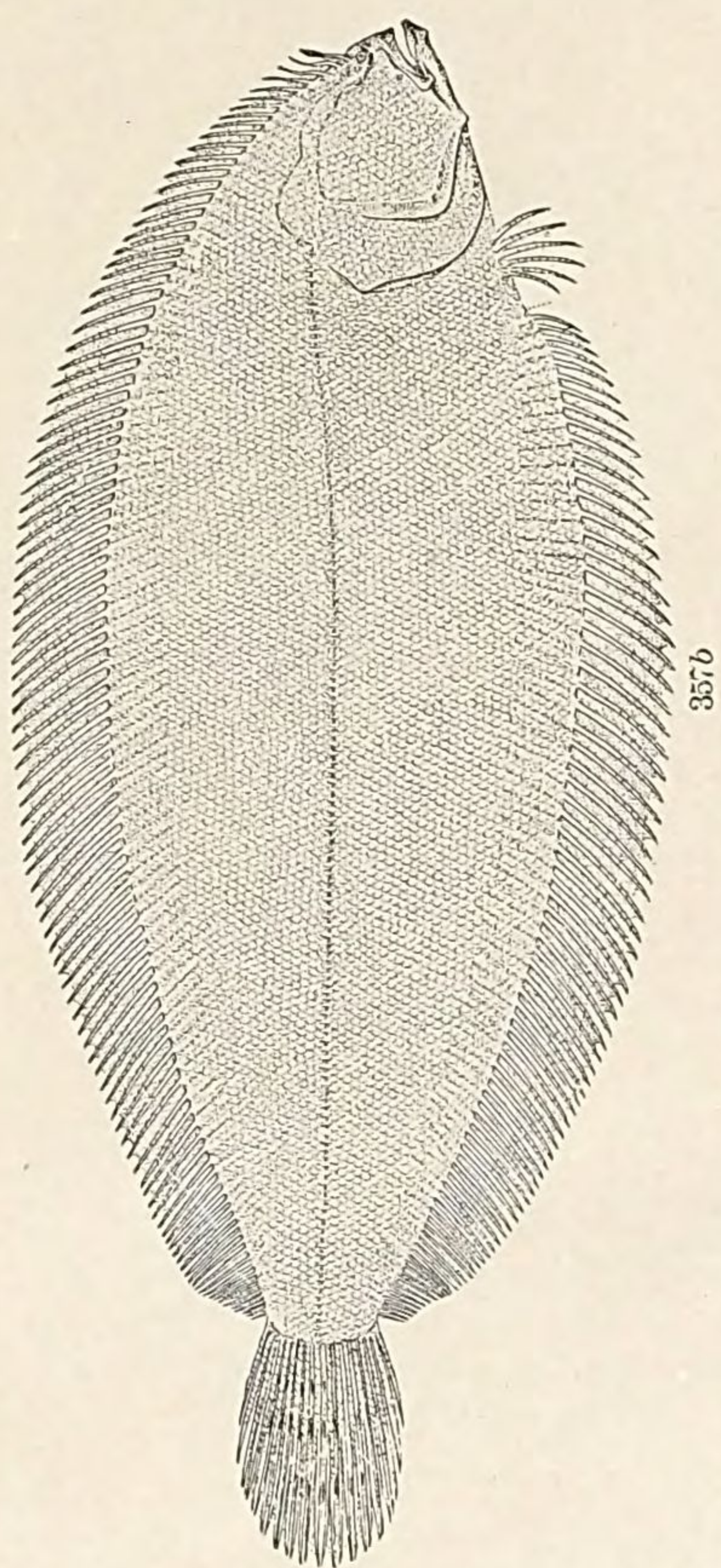
355c



356a

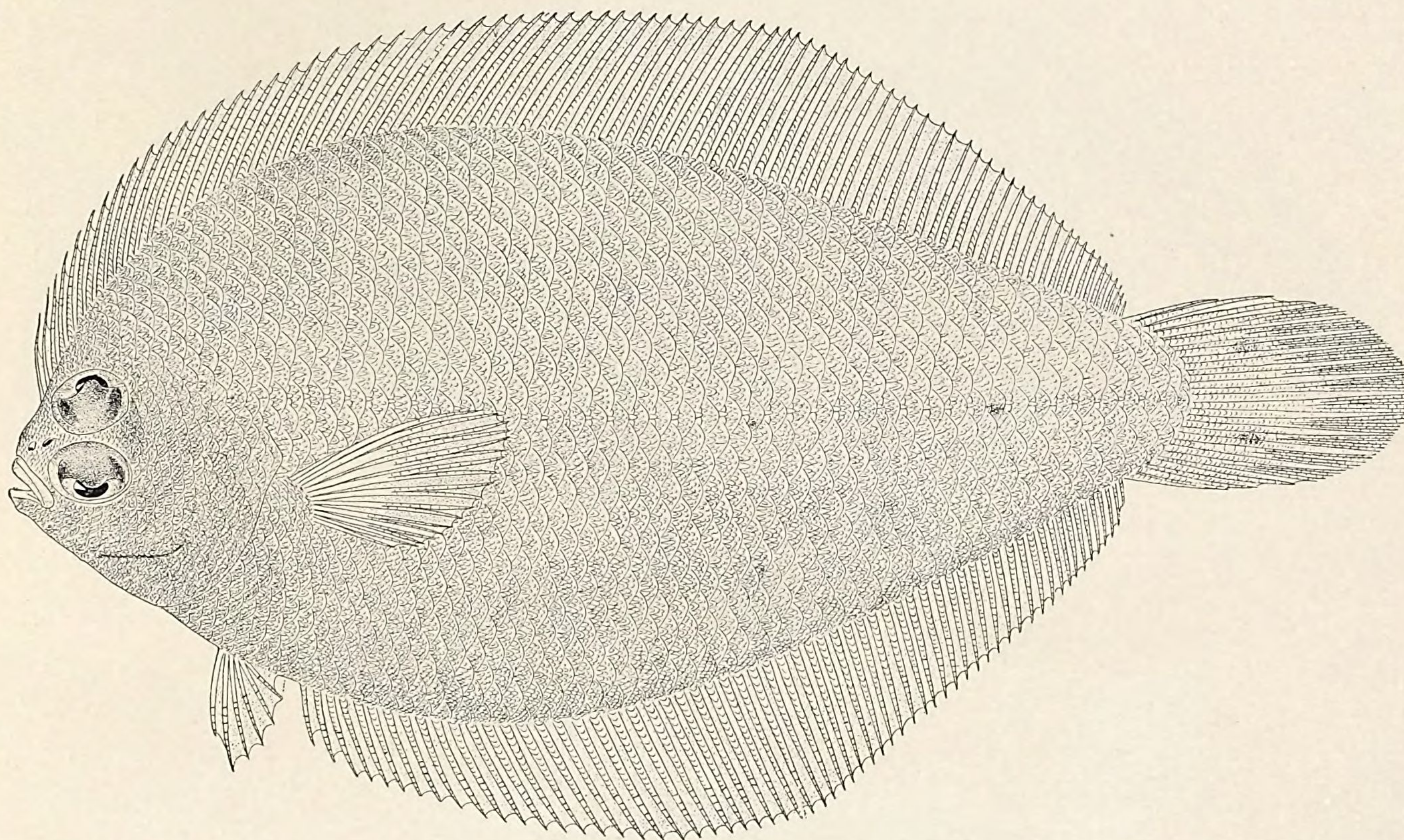
355a-d. *LIMANDA BEANII*. (p. 428.)

356a, b. *GLYPTOCEPHALUS CYNOGLOSSUS*. (p. 430.)

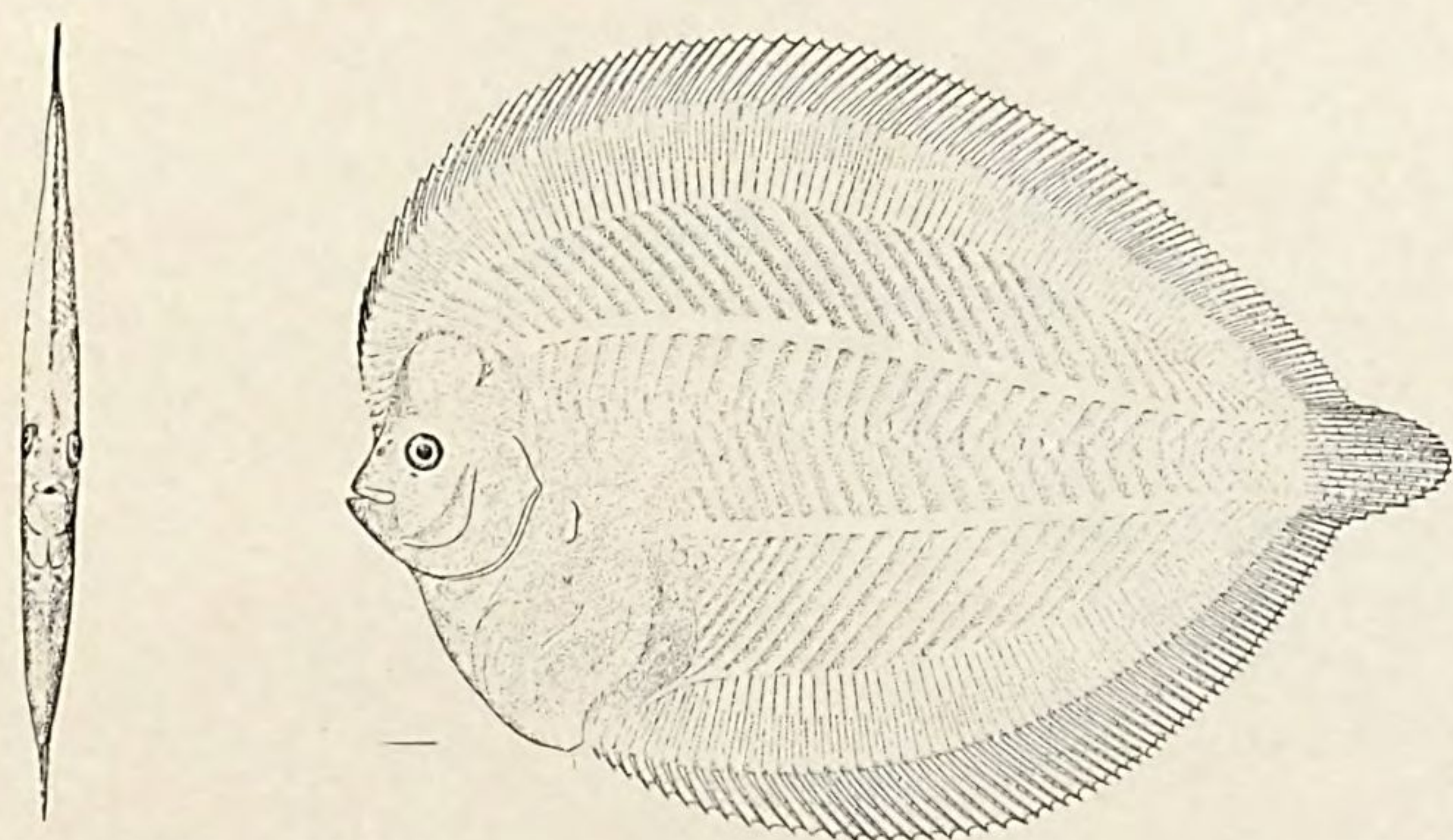


357a, b. *MONOLENE SESSILICAUDA*. (p. 452.)

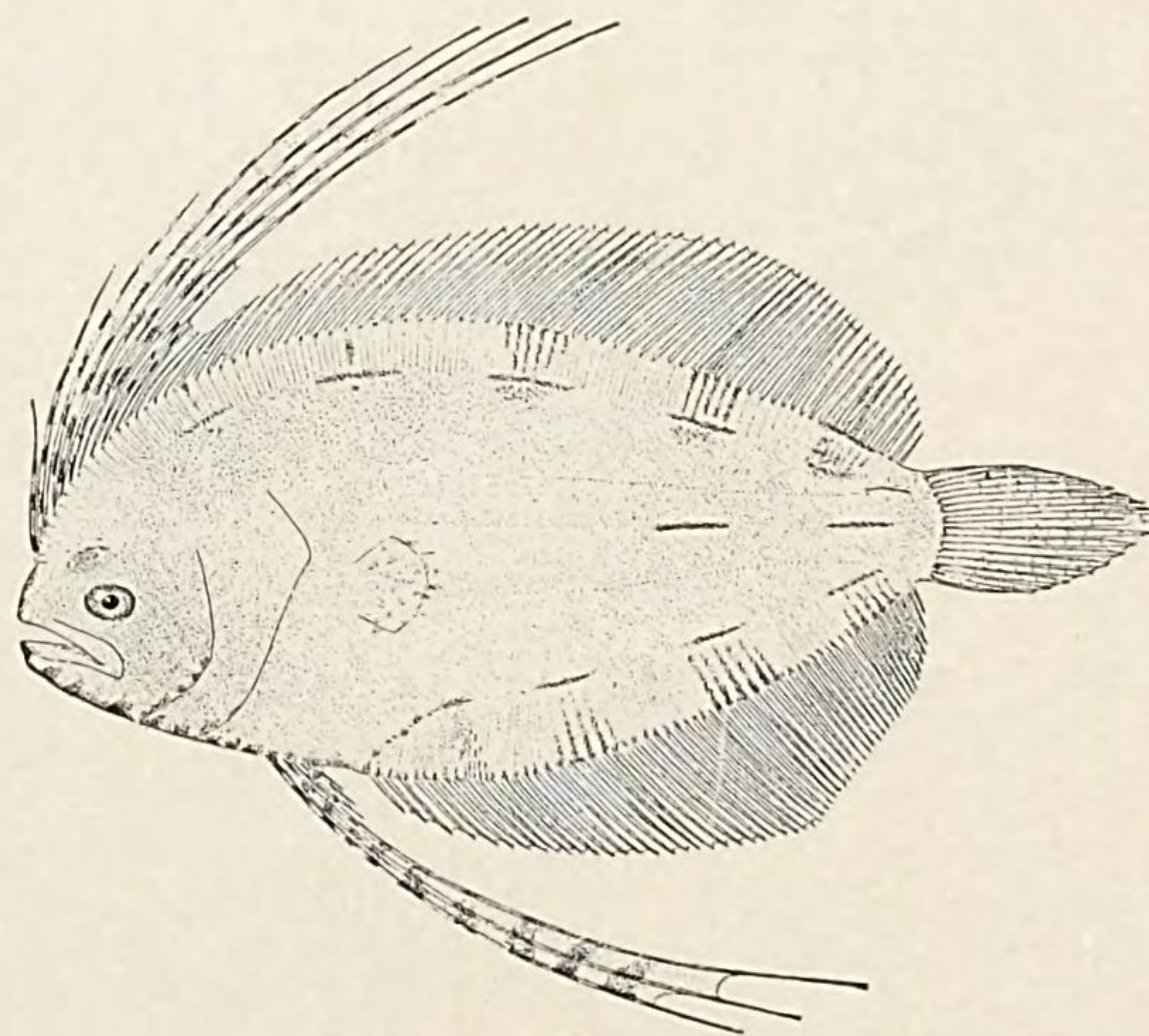
358, 359. *MONOLENE ATRIMANA*. (p. 455.)



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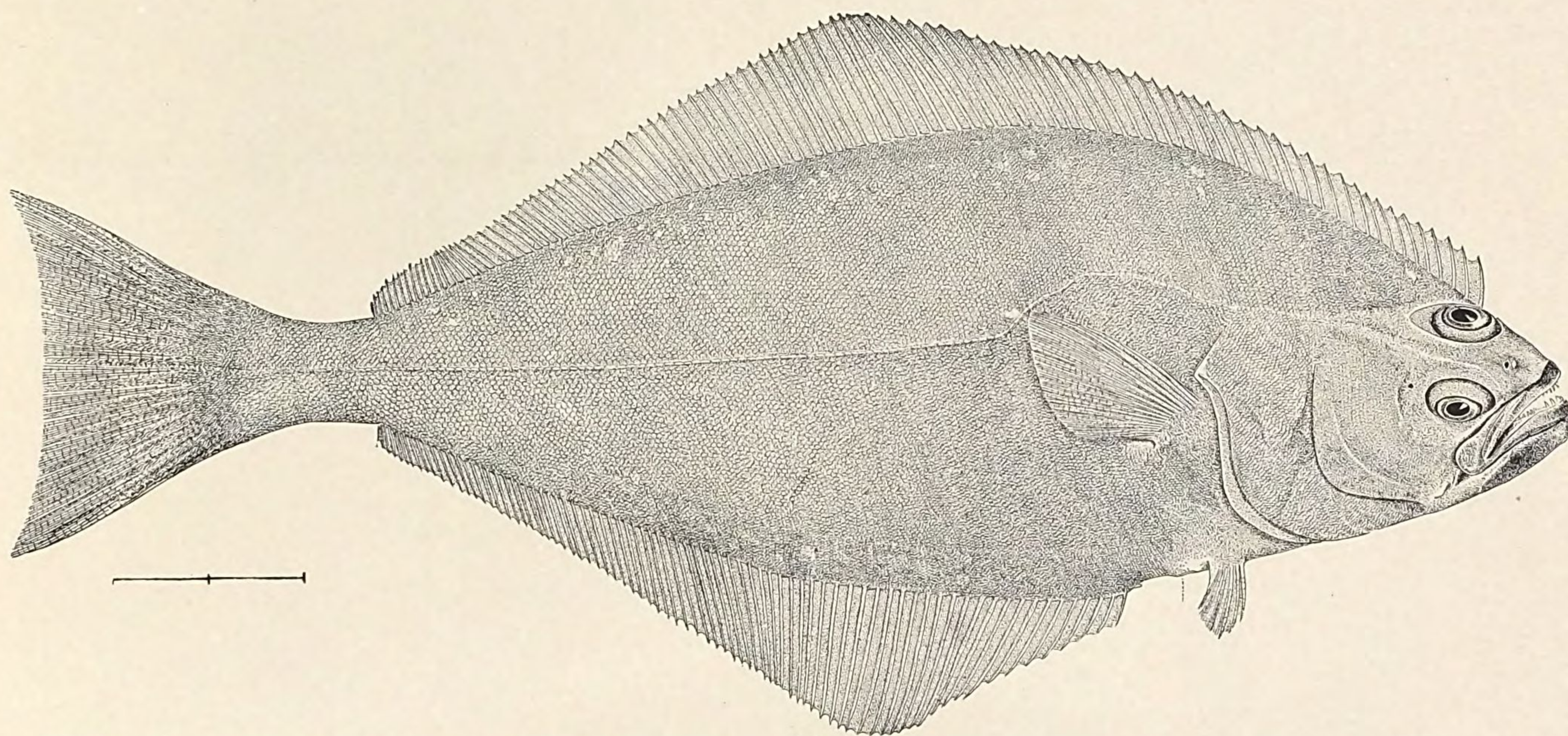
361



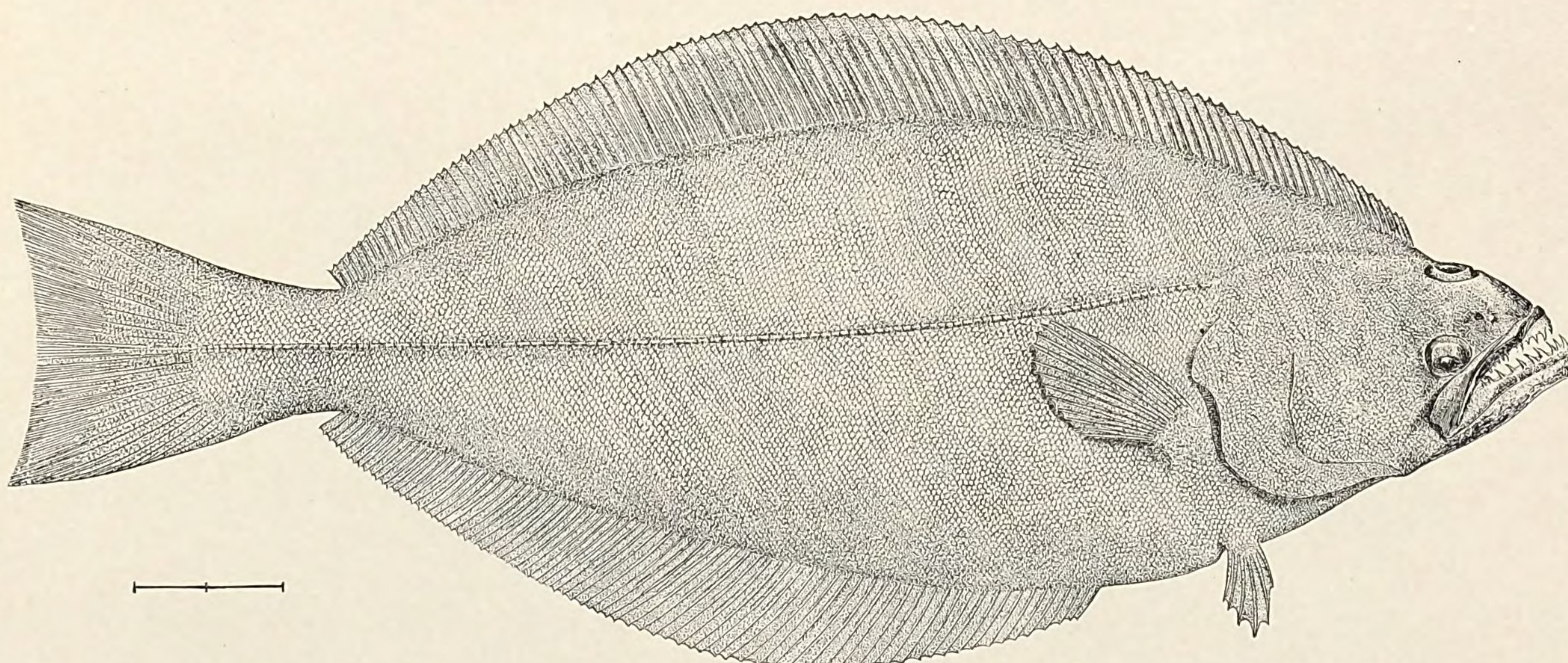
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360, 361. ETROPUS RIMOSUS. (p. 450.)

362. NOTOSEMA DILECTA. (p. 437.)



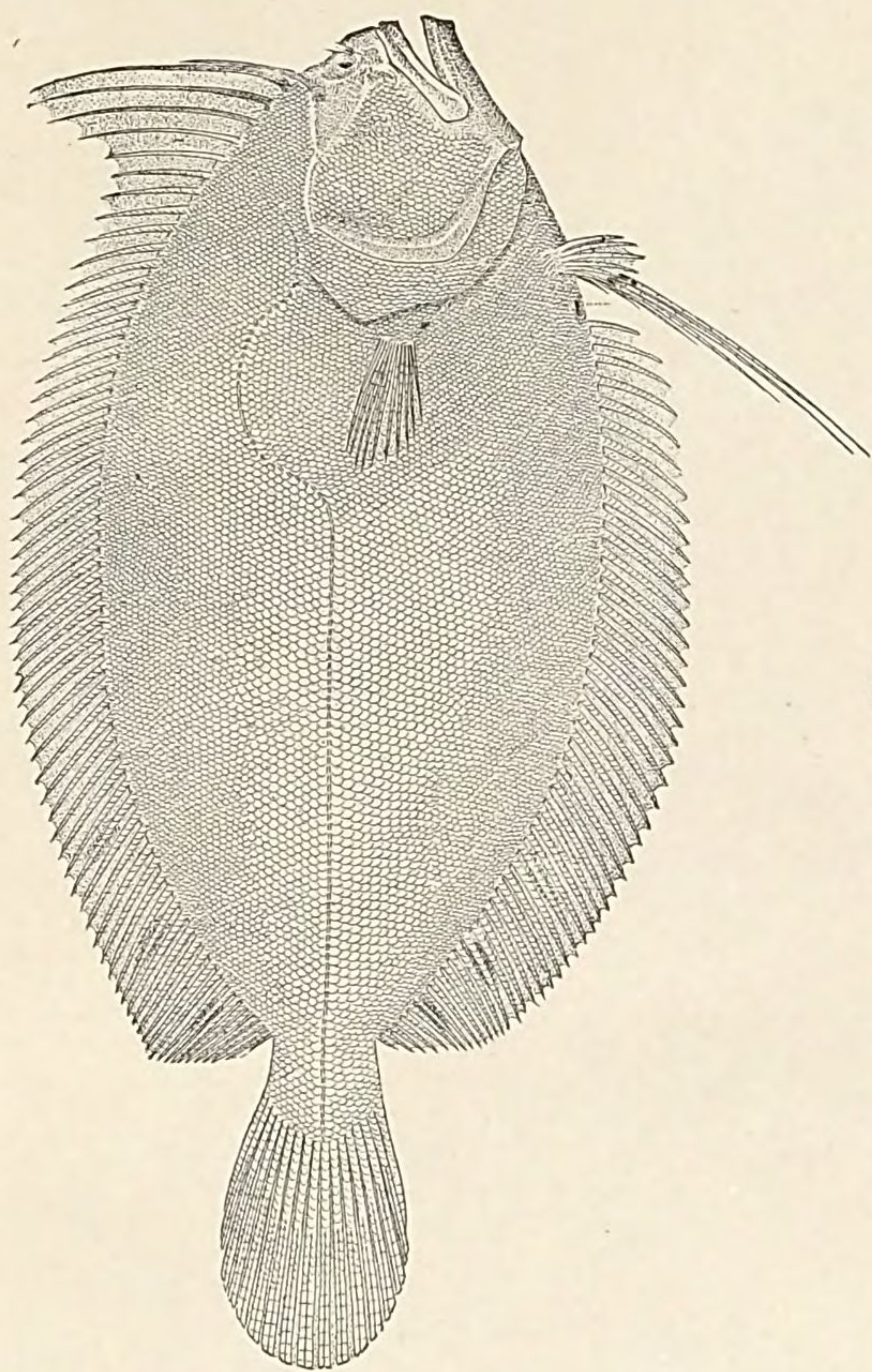
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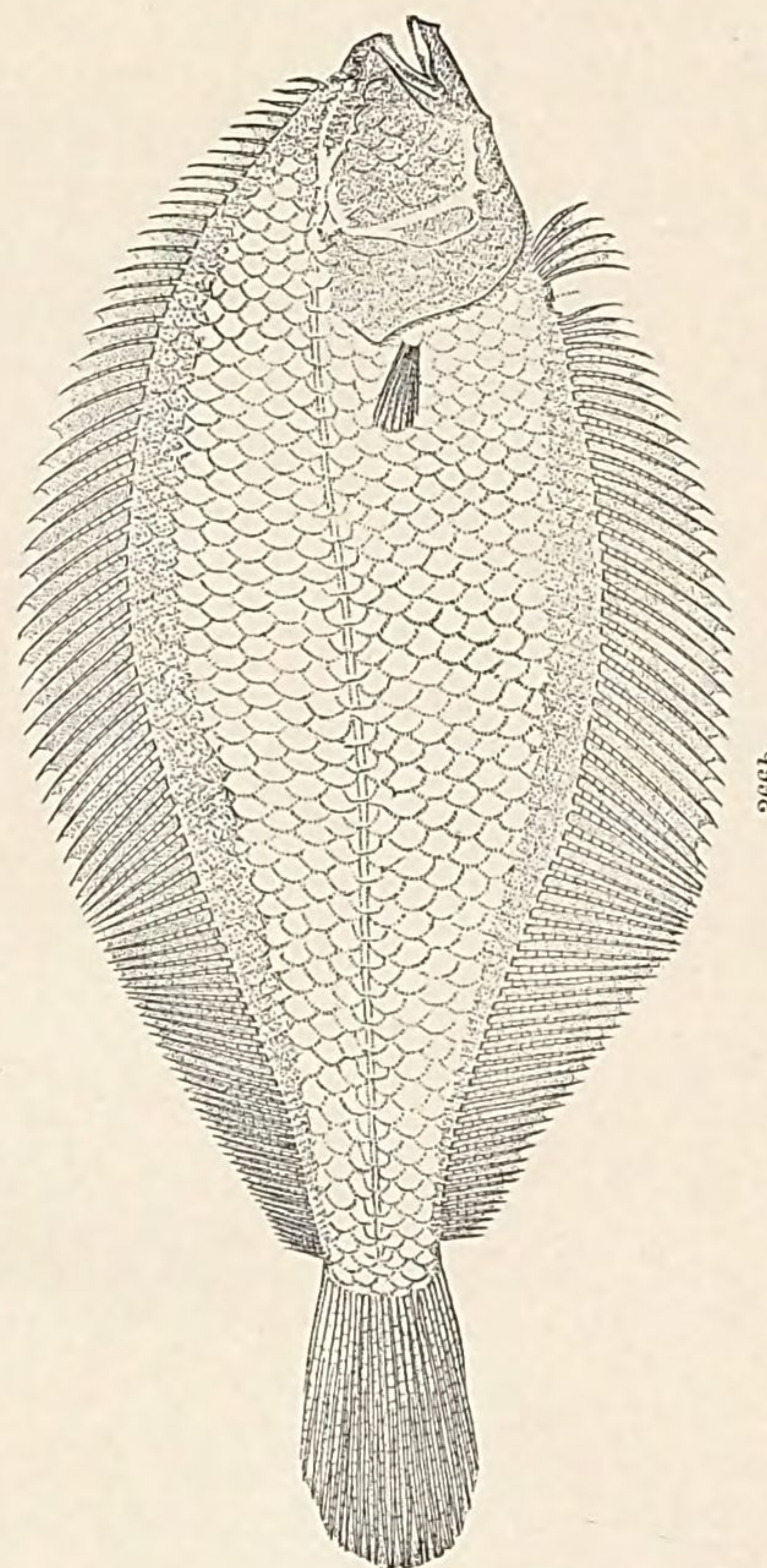
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363. HIPPOGLOSSUS VULGARIS. (p. 434.)

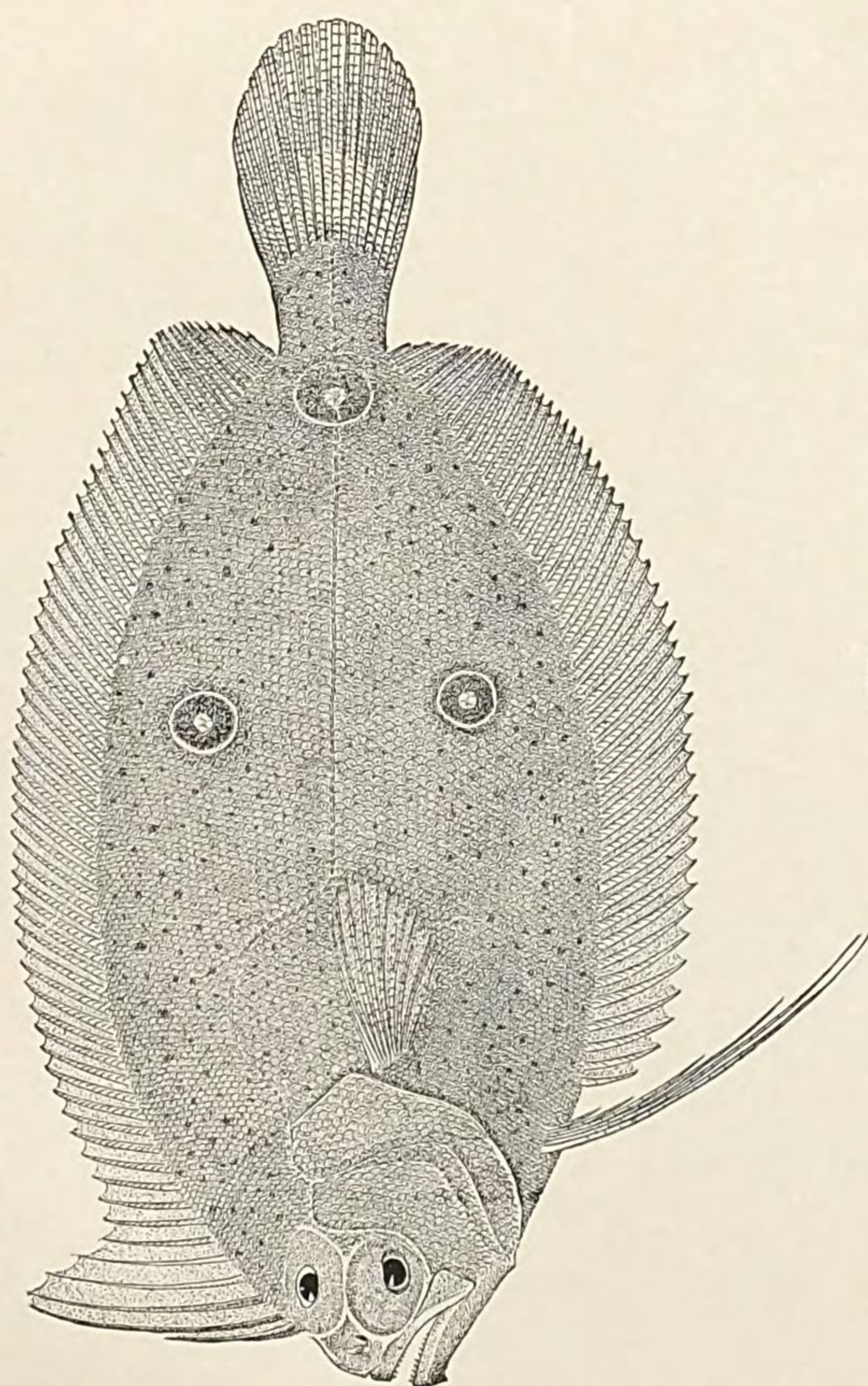
364. PLATYSOMATICHTHYS HIPPOGLOSSOIDES. (p. 435.)



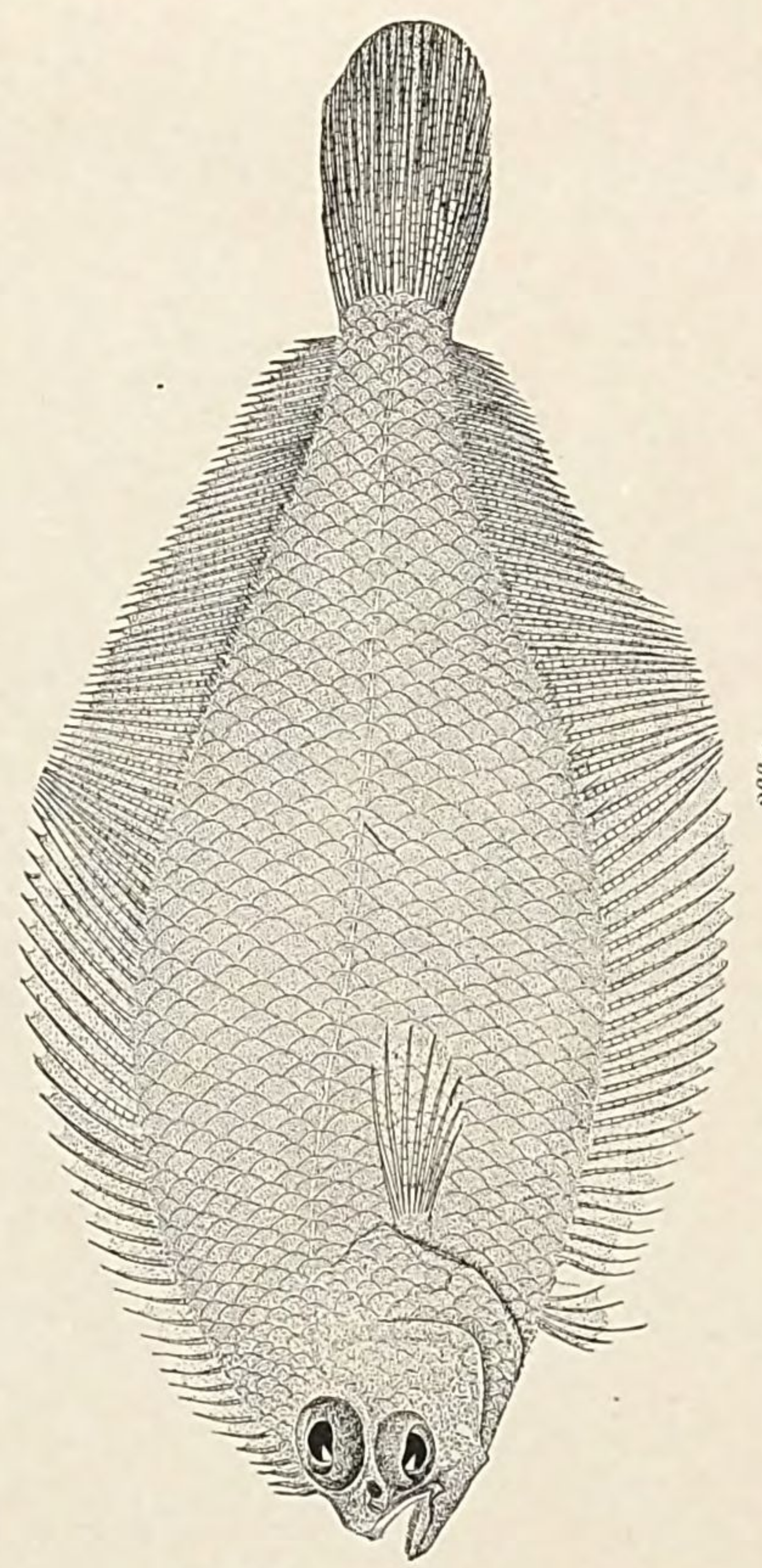
365b



366b



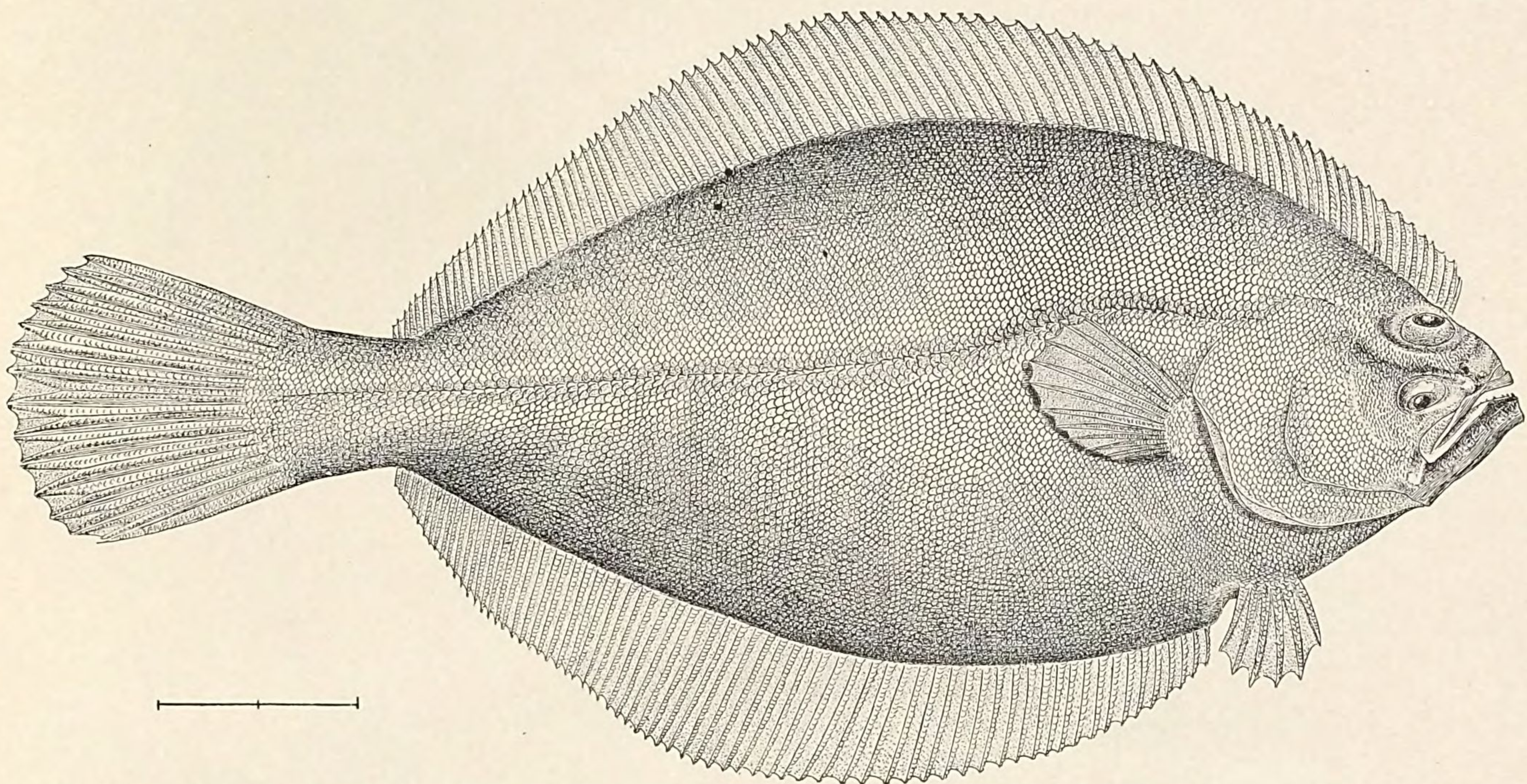
365a



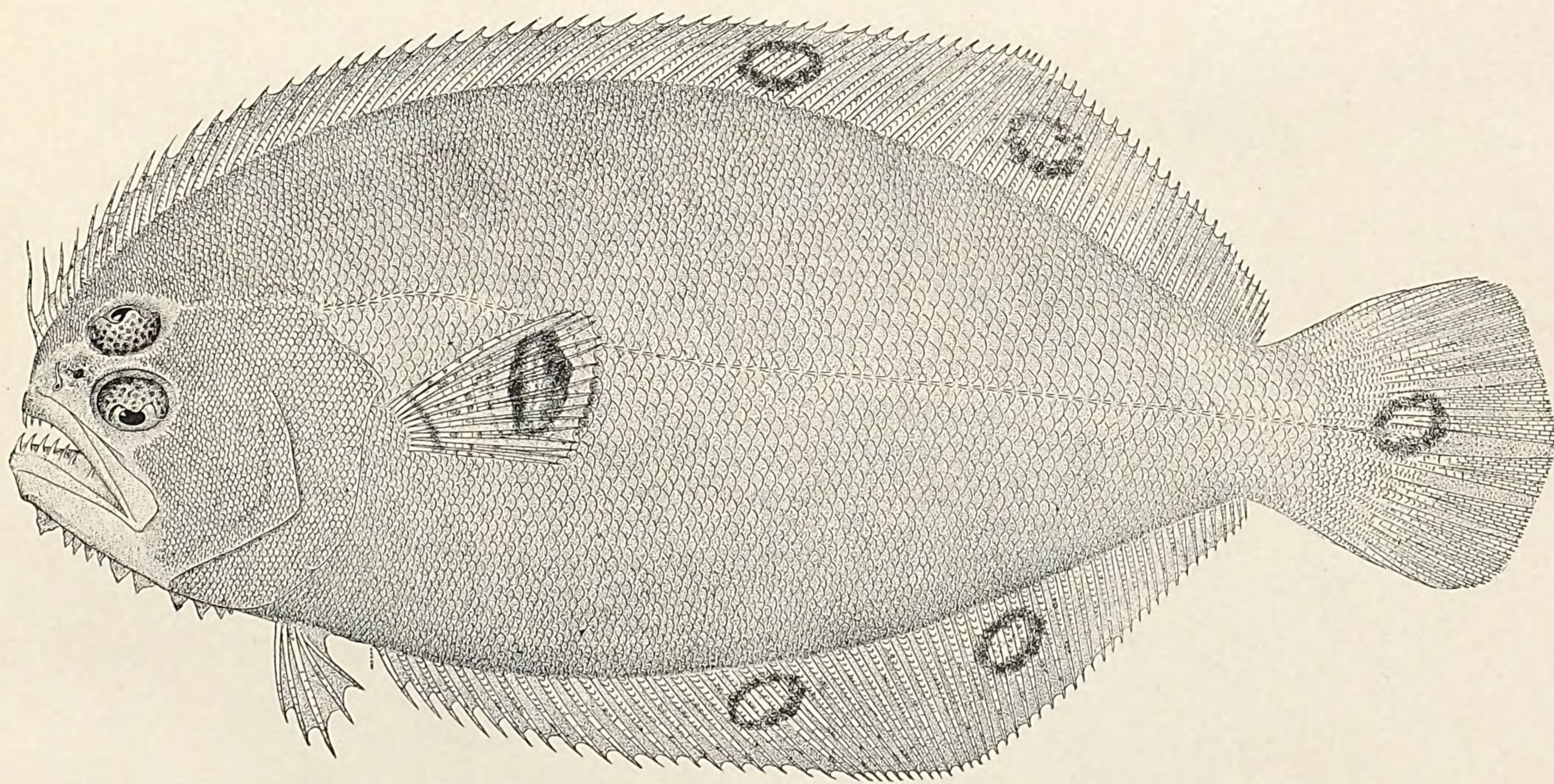
366a

365a, b. *NOTOSEMA DILECTA*. (p. 437.)

366a, b. *CITHARICHTHYS ARCTIFRONS*. (p. 442.)



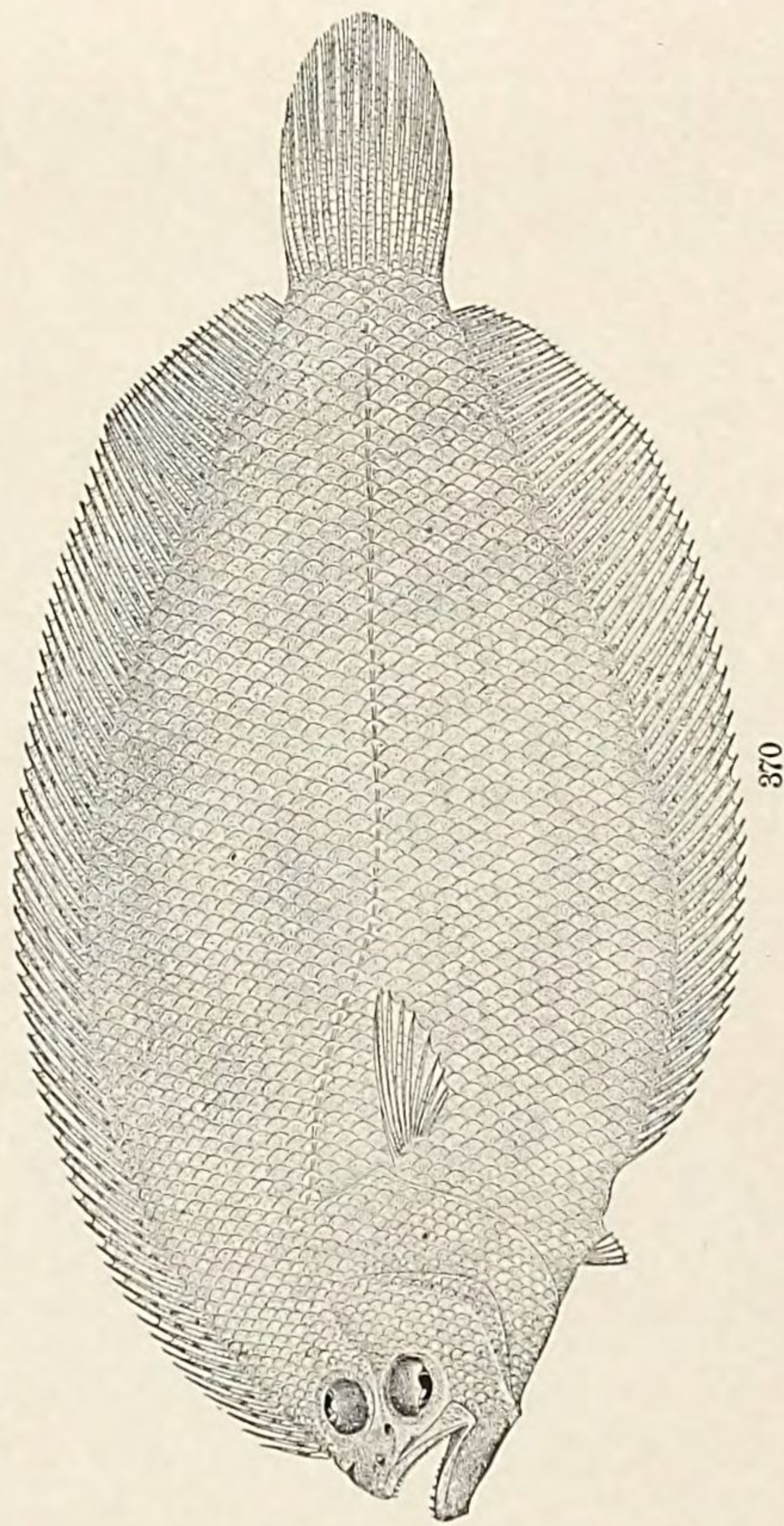
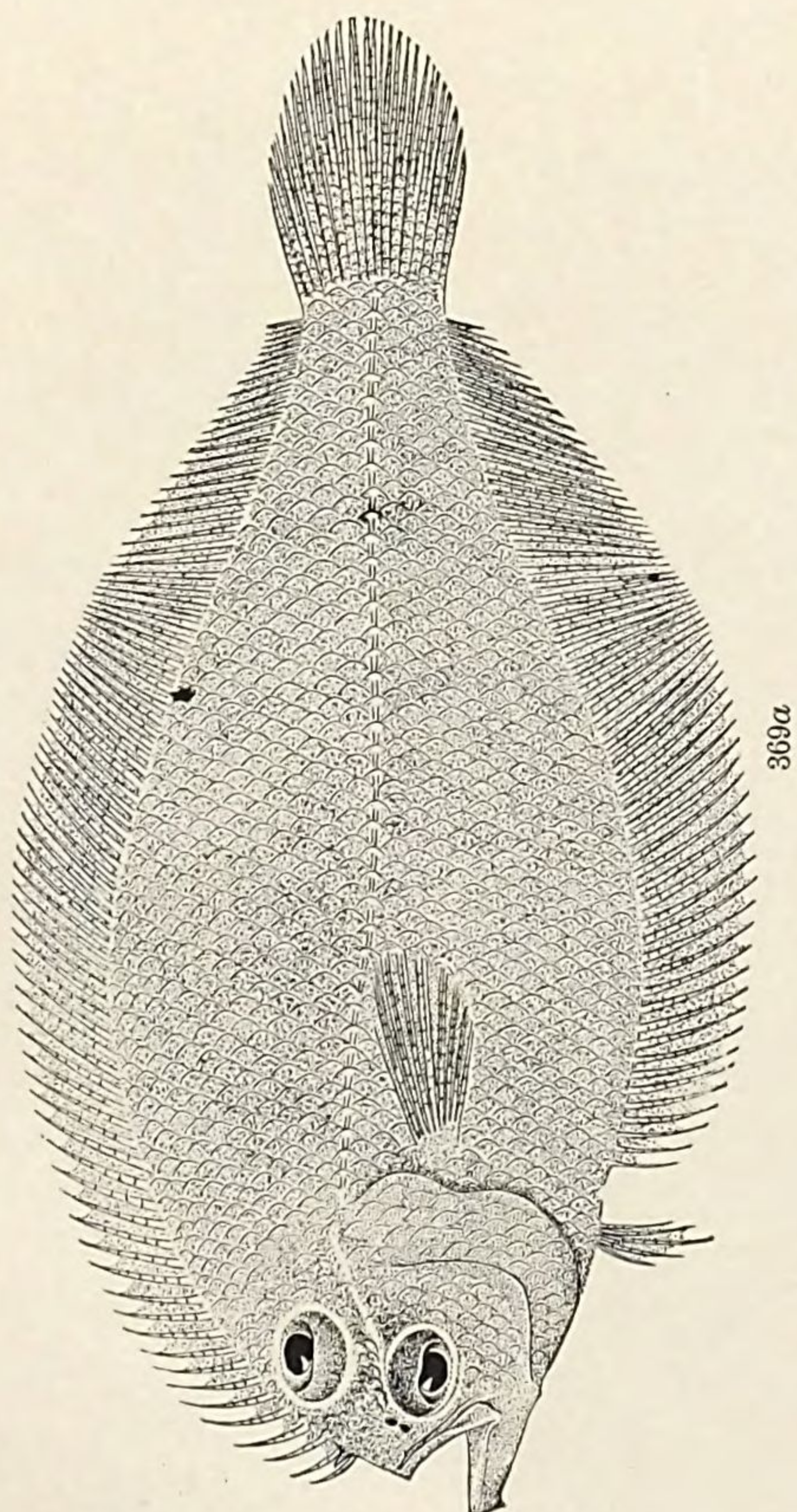
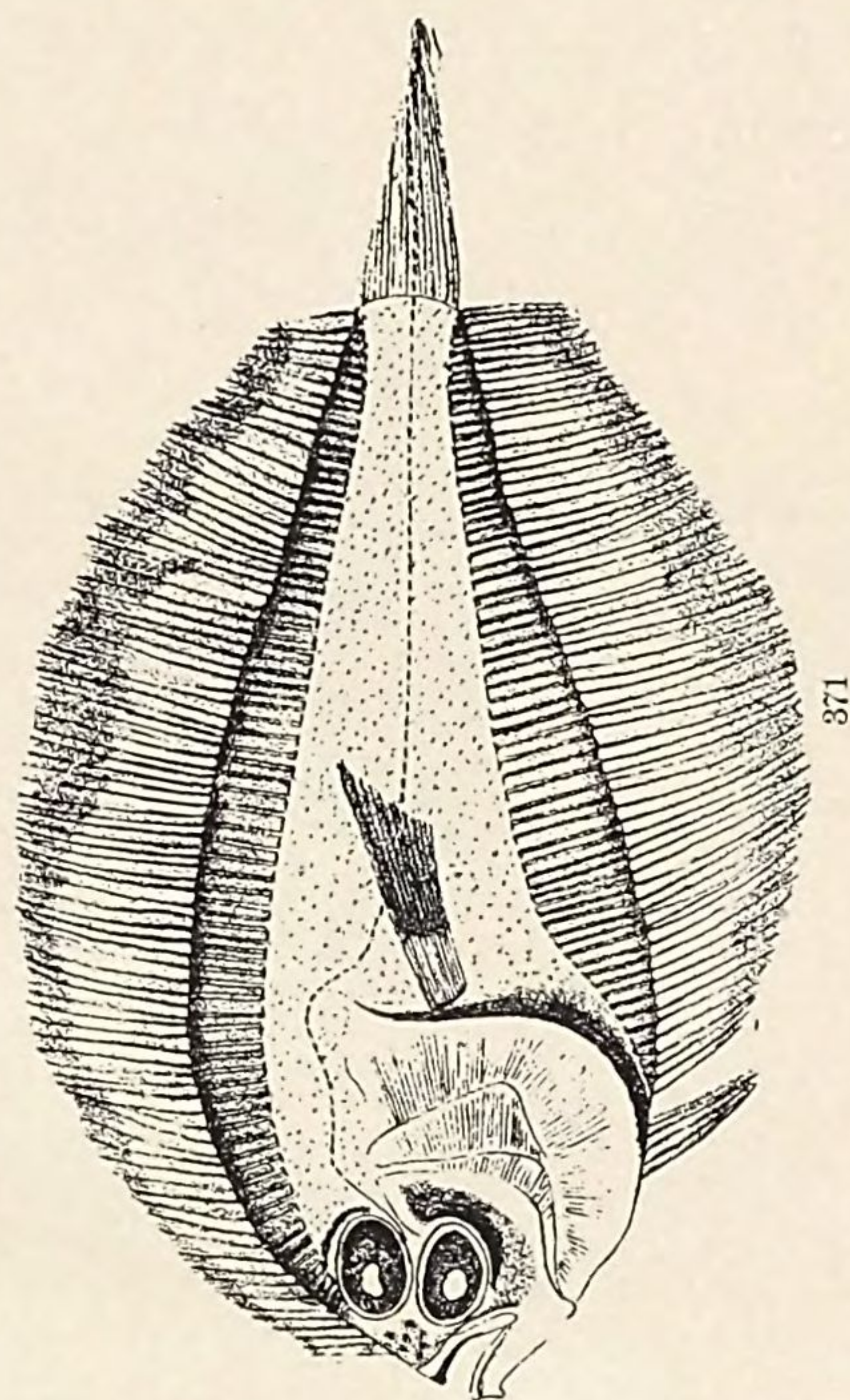
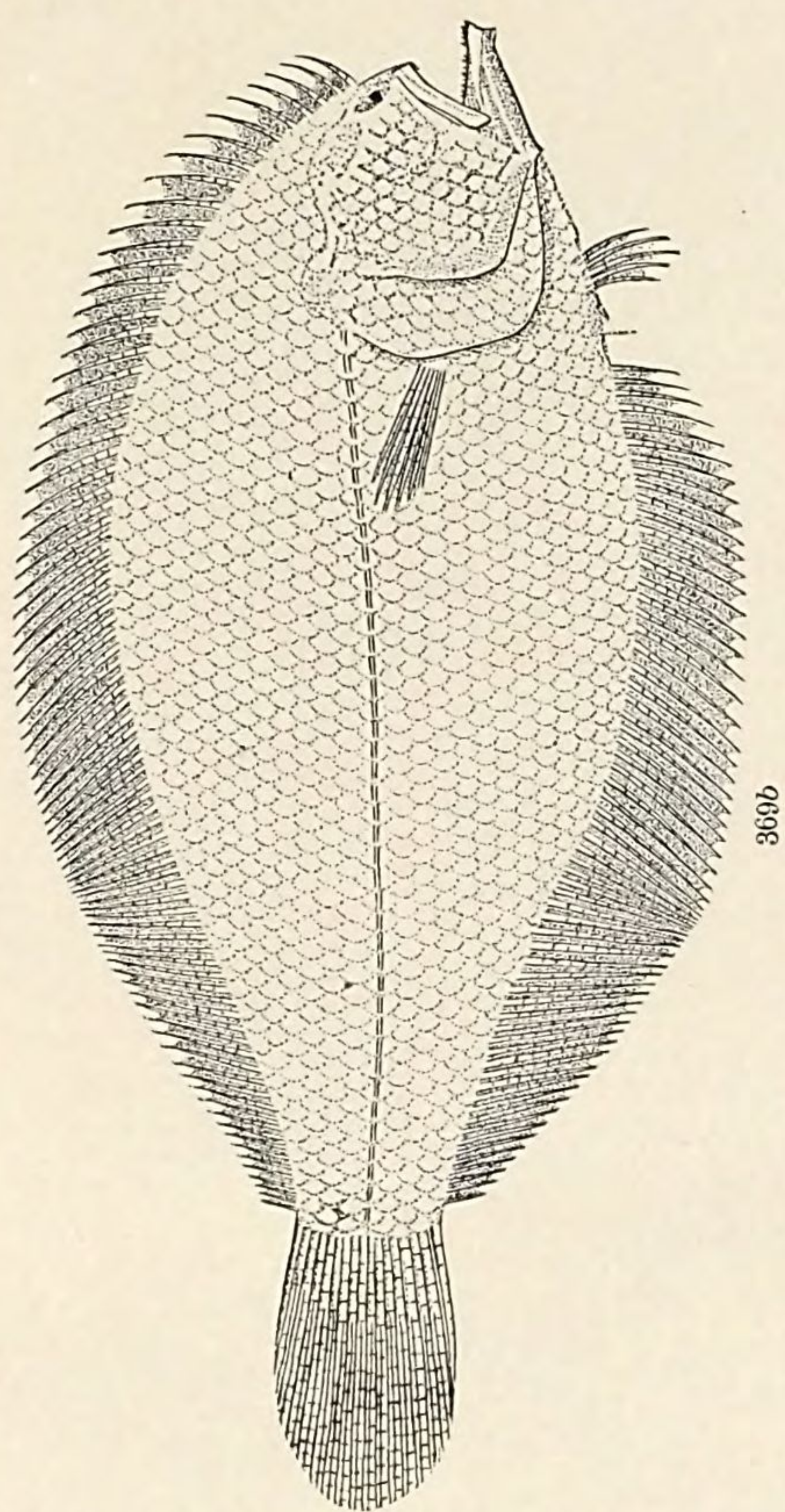
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367. HIPPOGLOSSOIDES PLATESSOIDES. (p. 438.)

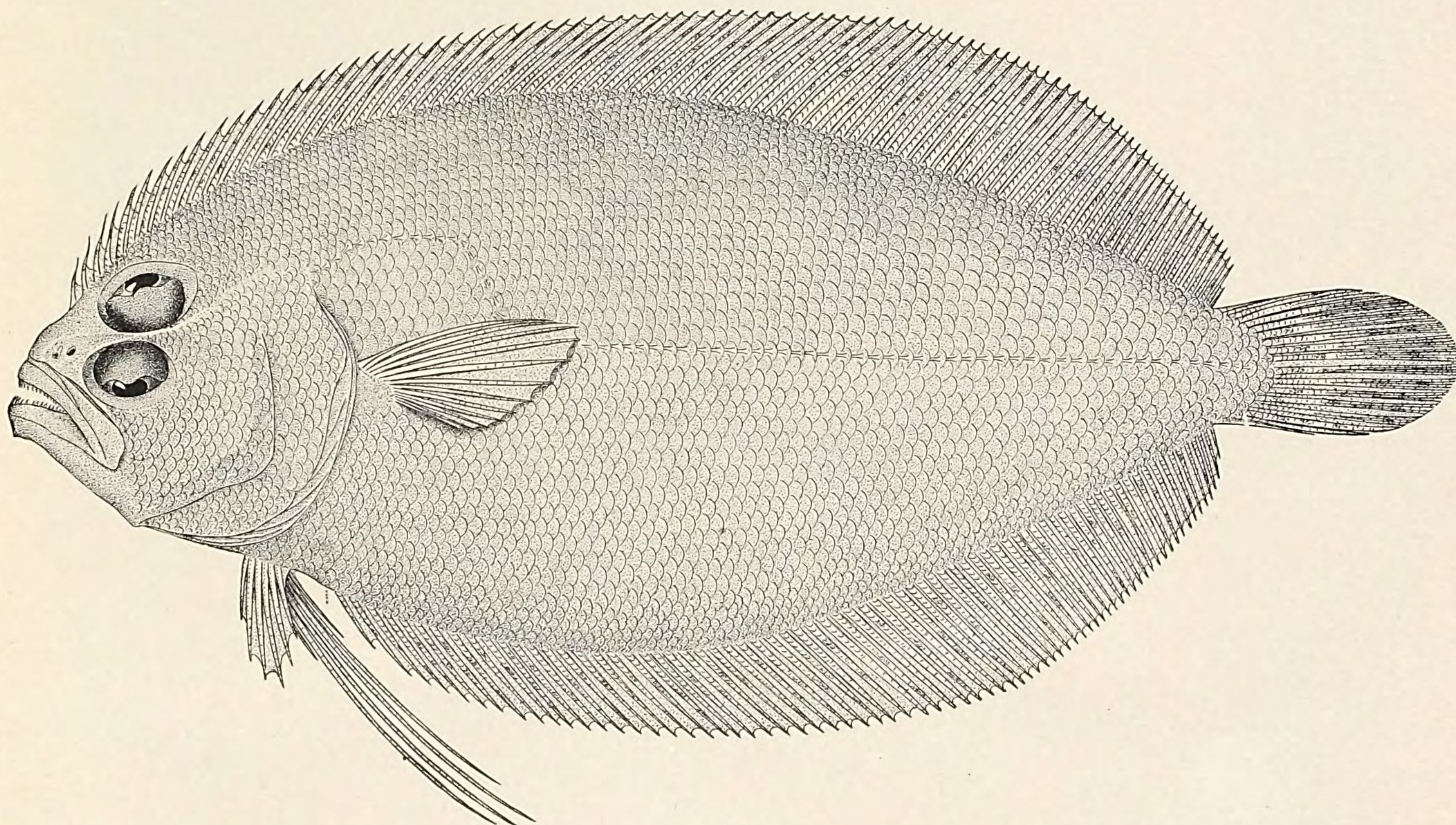
368. CYCLOPSETTA FIMBRIATA. (p. 451.)



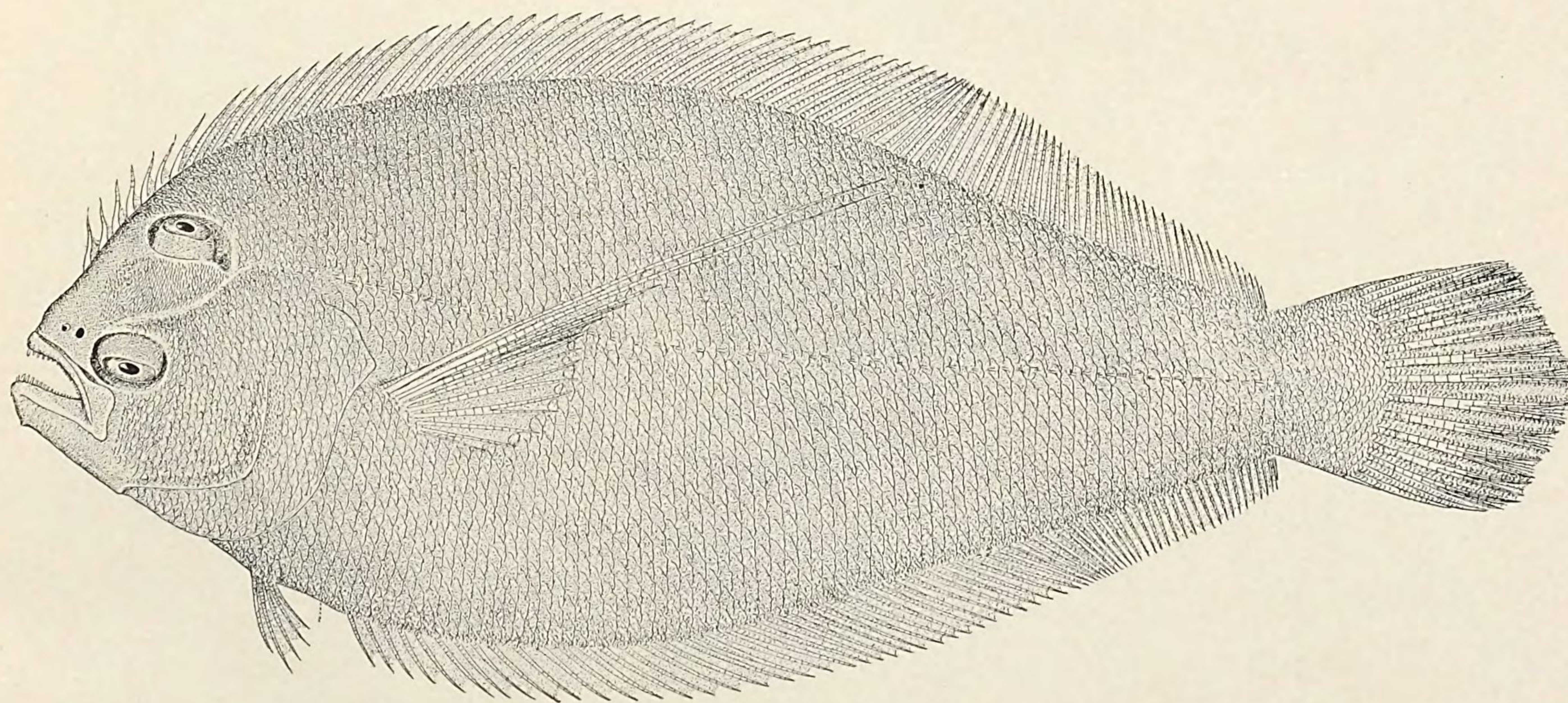
369a, b. CITHARICHTHYS UNICORNUS. (p. 444.)

370. CITHARICHTHYS SPILOPTERUS. (p. 447.)

371. SCIANECTES MACROPHthalmus. (p. 440.)



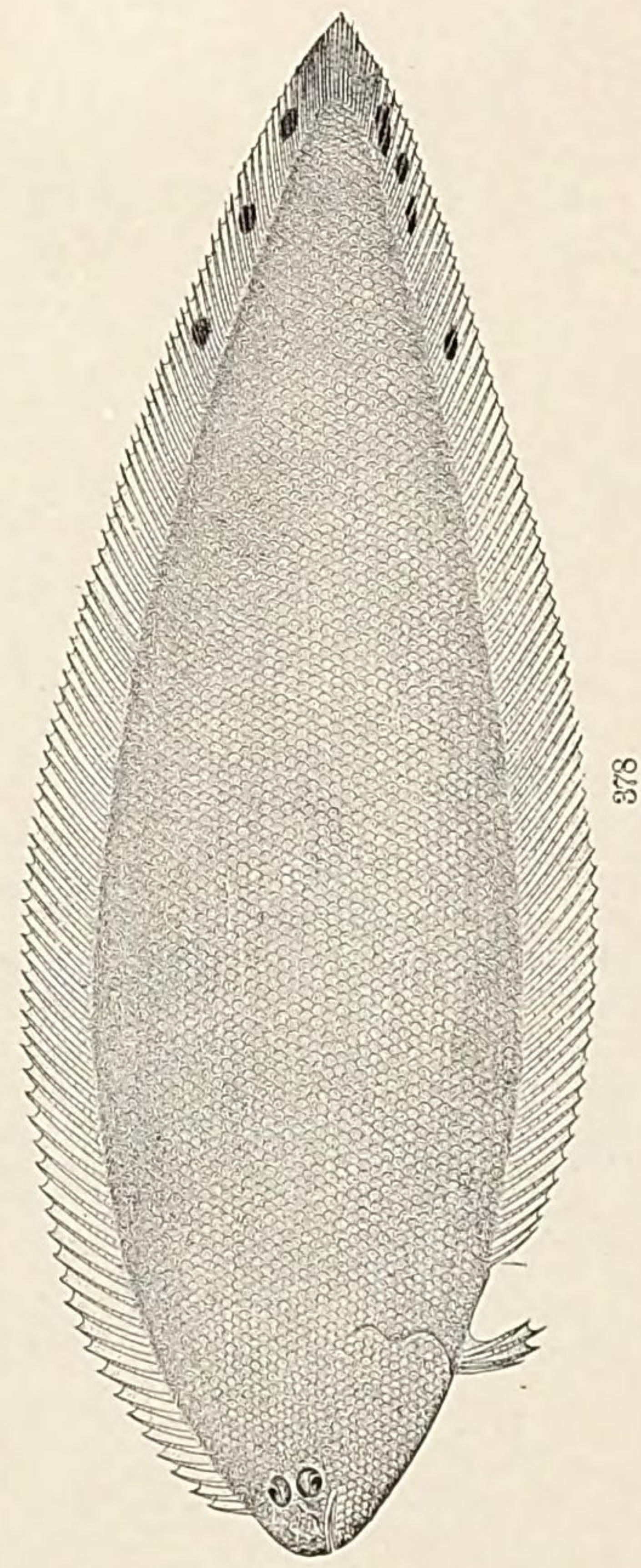
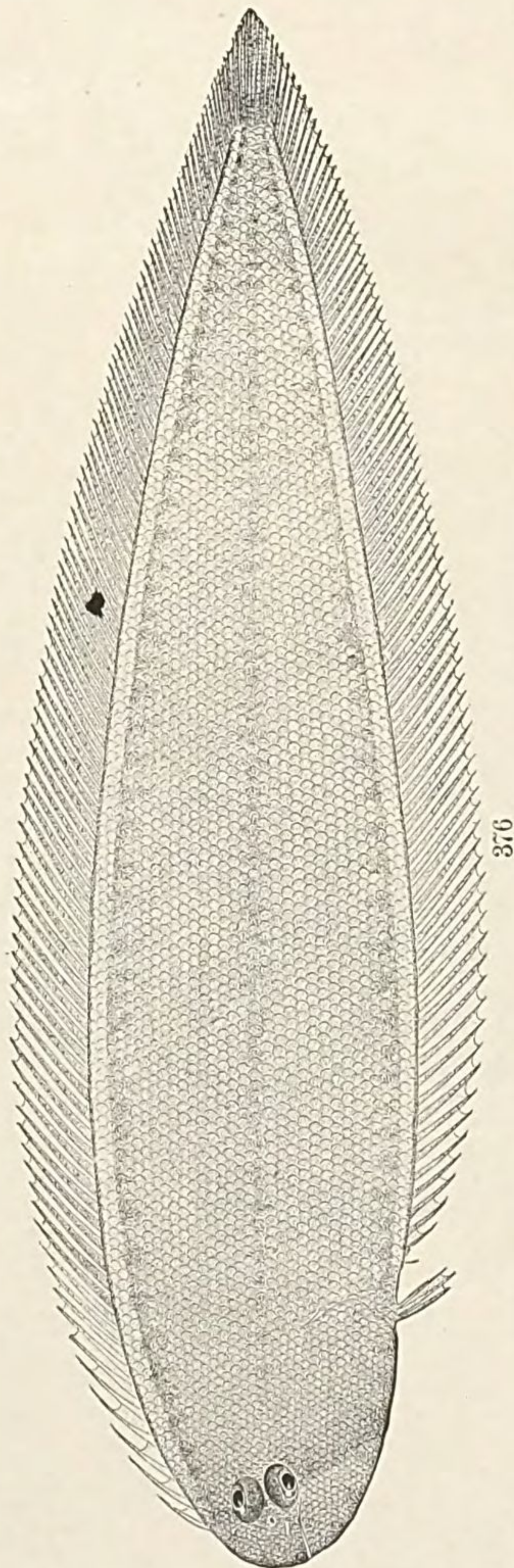
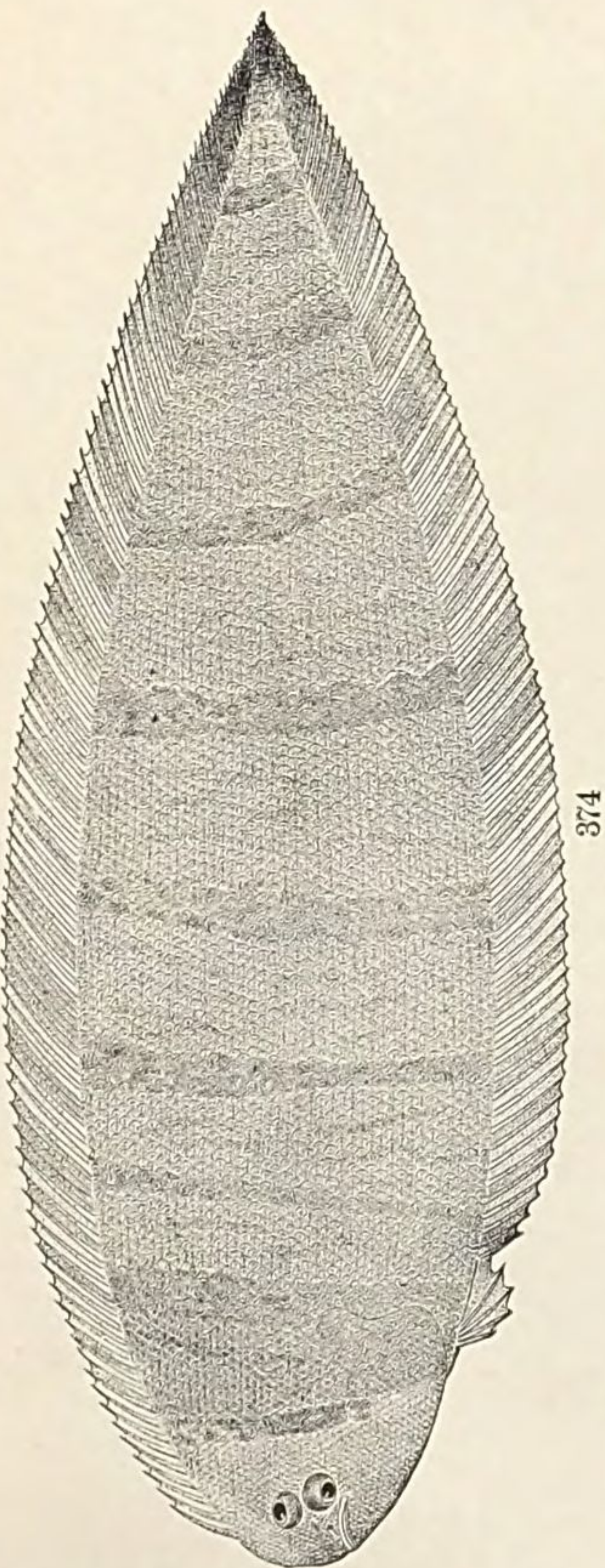
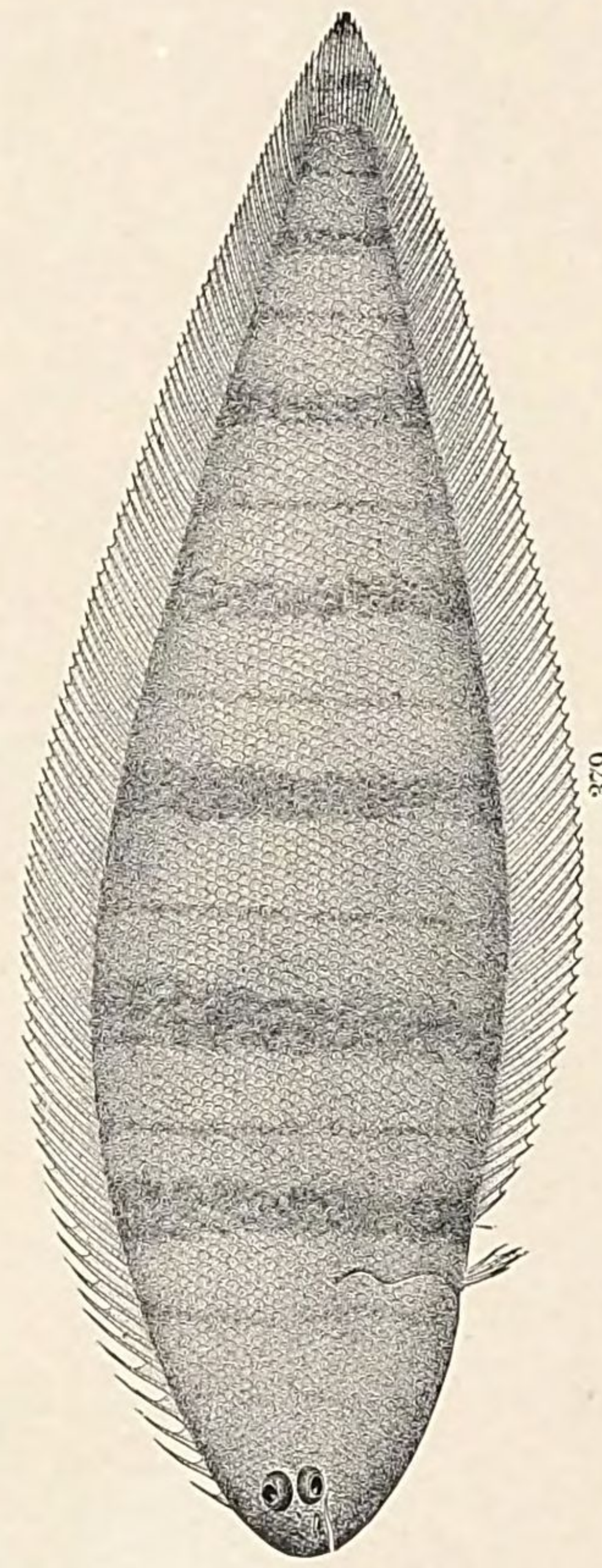
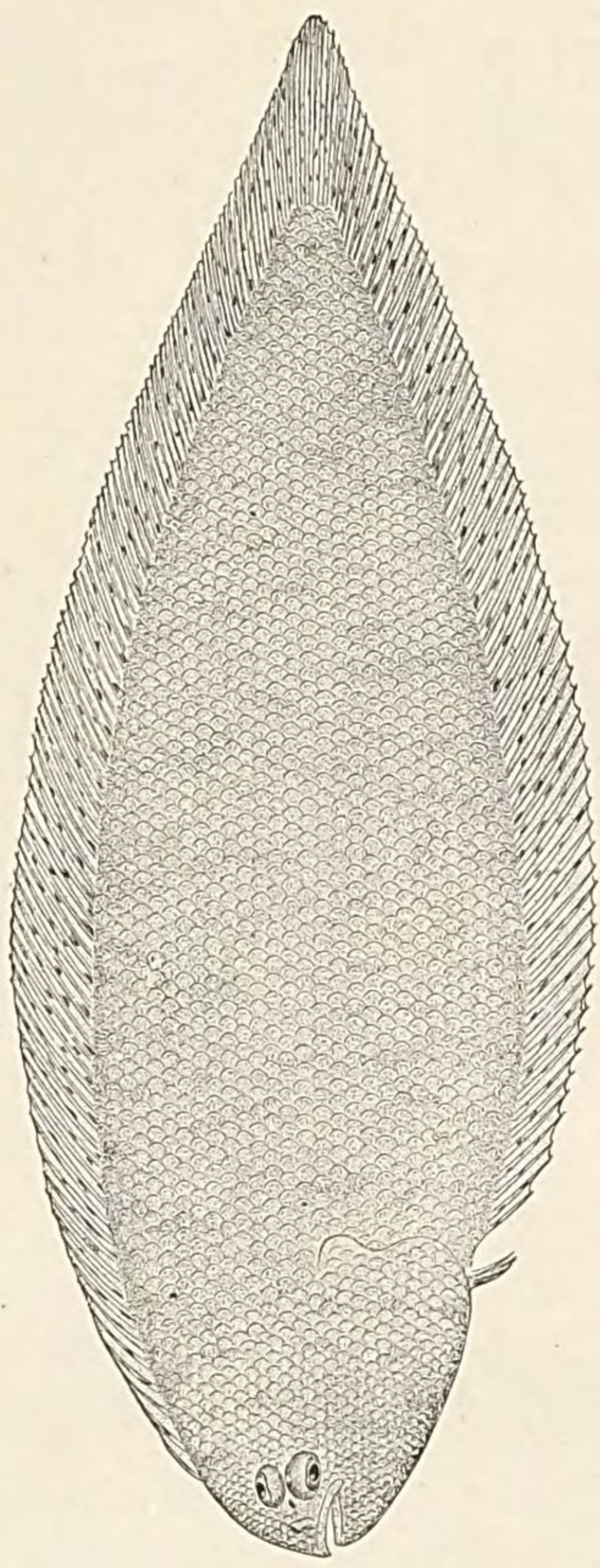
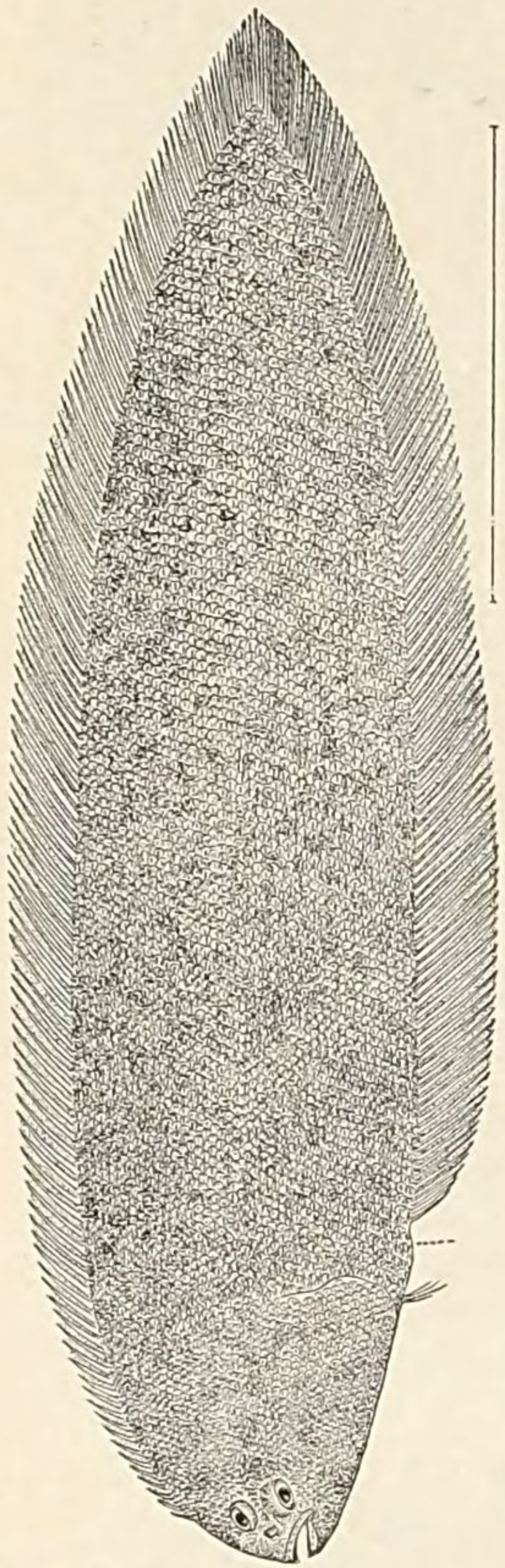
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372. *TRICHOPSETTA VENTRALIS*. (p. 440.)

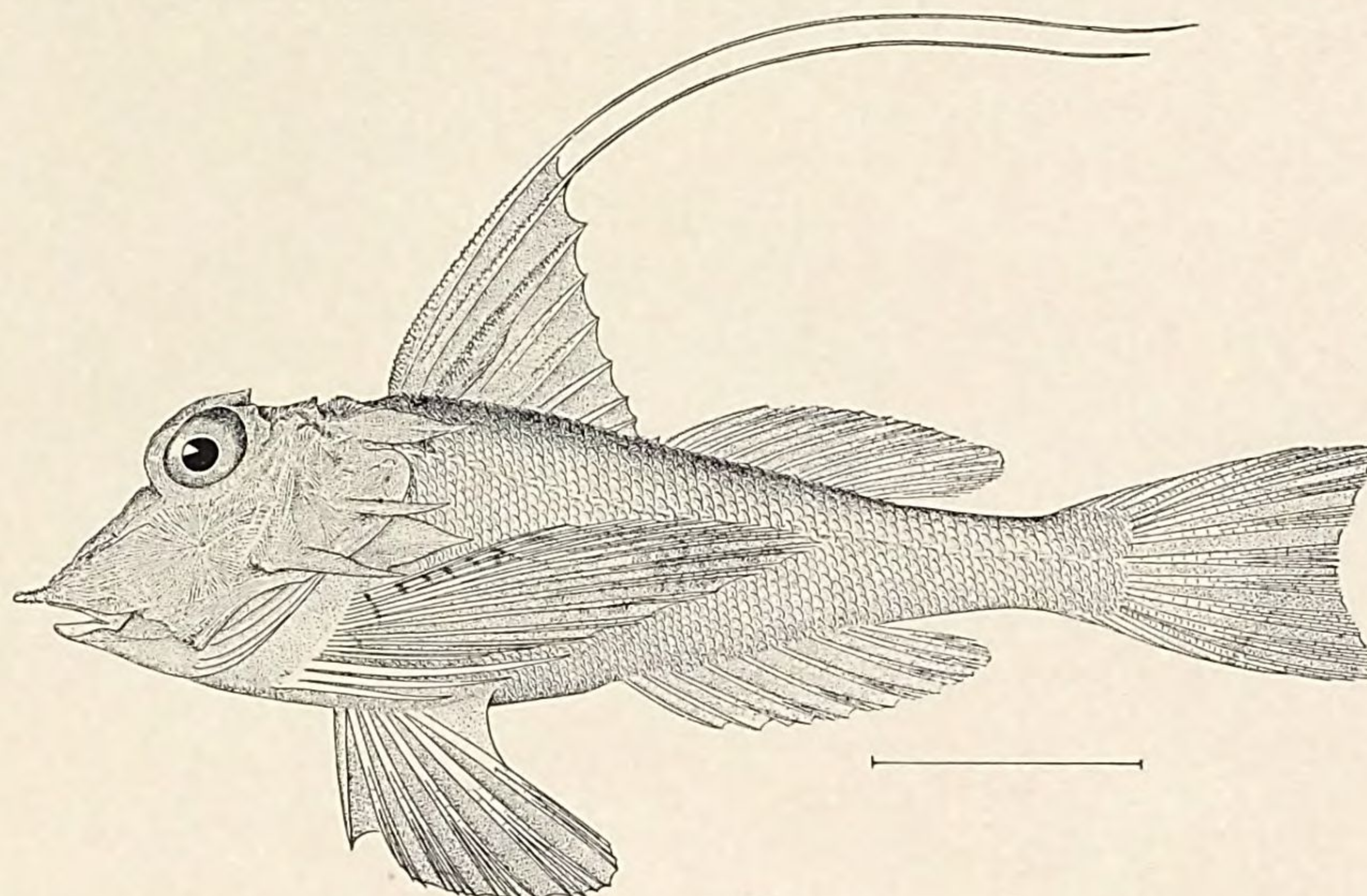
373. *CITHARICHTHYS PÆTULUS*. (p. 448.)



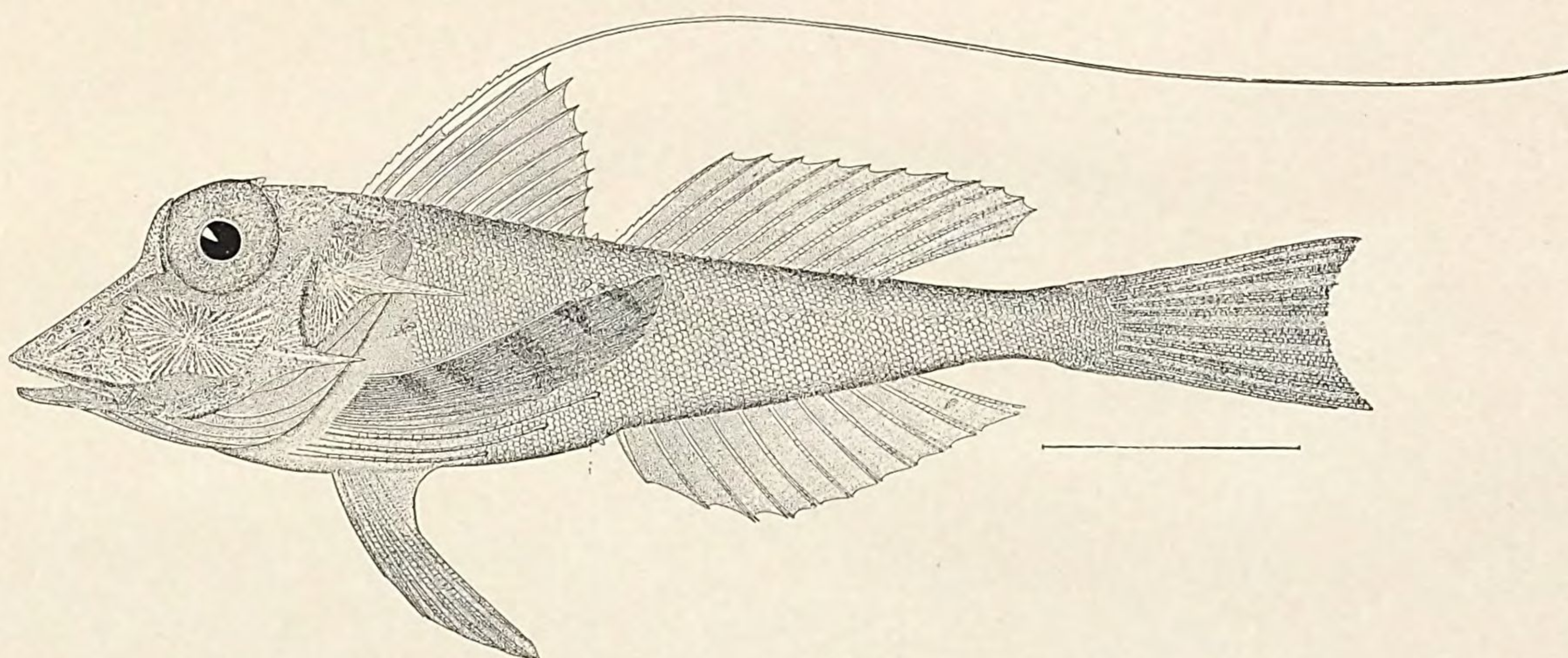
374. APHORISTIA FASCIATA. (p. 458.)
377. APHORISTIA FIGRA. (p. 460.)

375. APHORISTIA NEBULOSA. (p. 458.)
378. APHORISTIA DIOMEDIANA. (p. 460.)

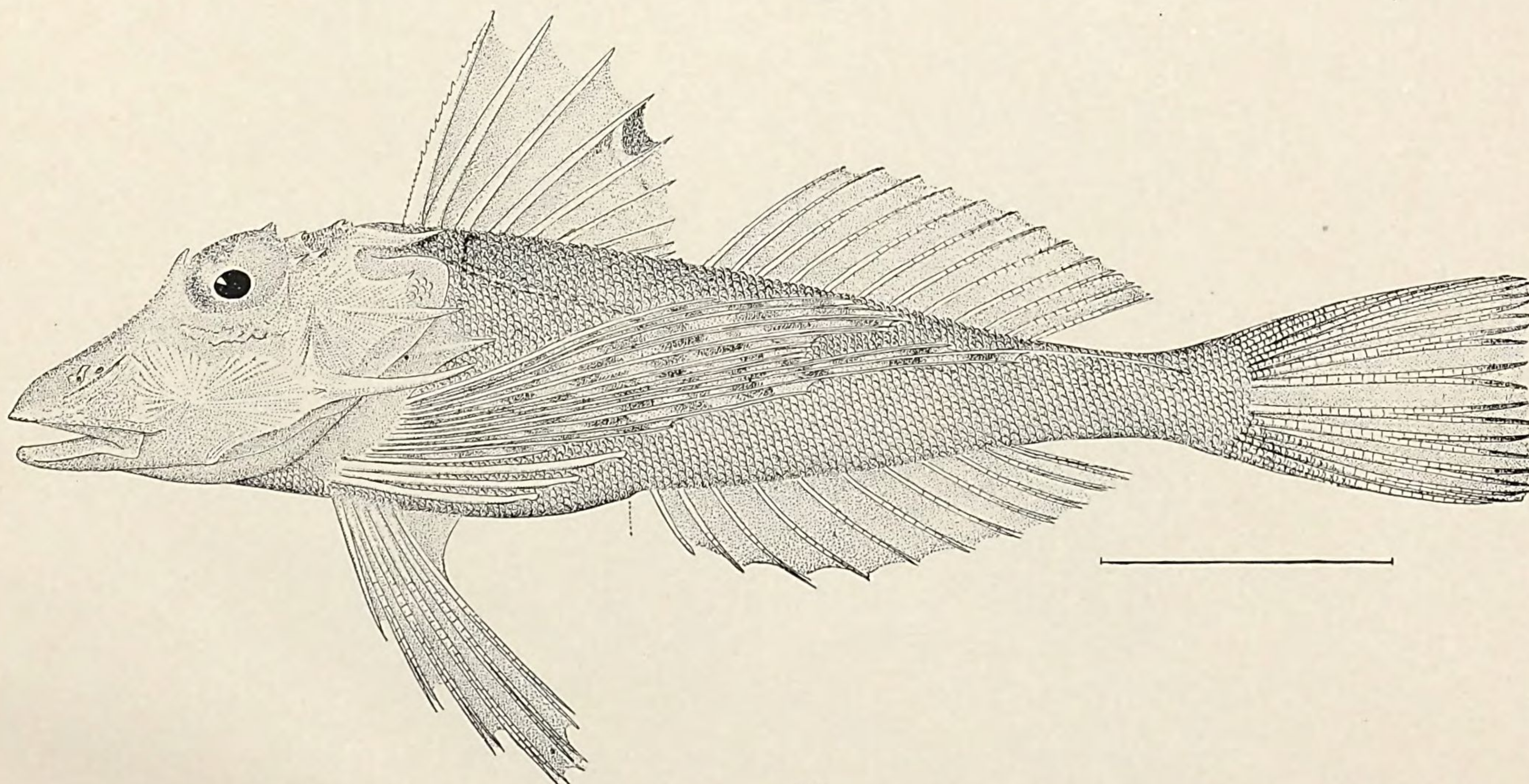
376. APHORISTIA MARGINATA. (p. 459.)
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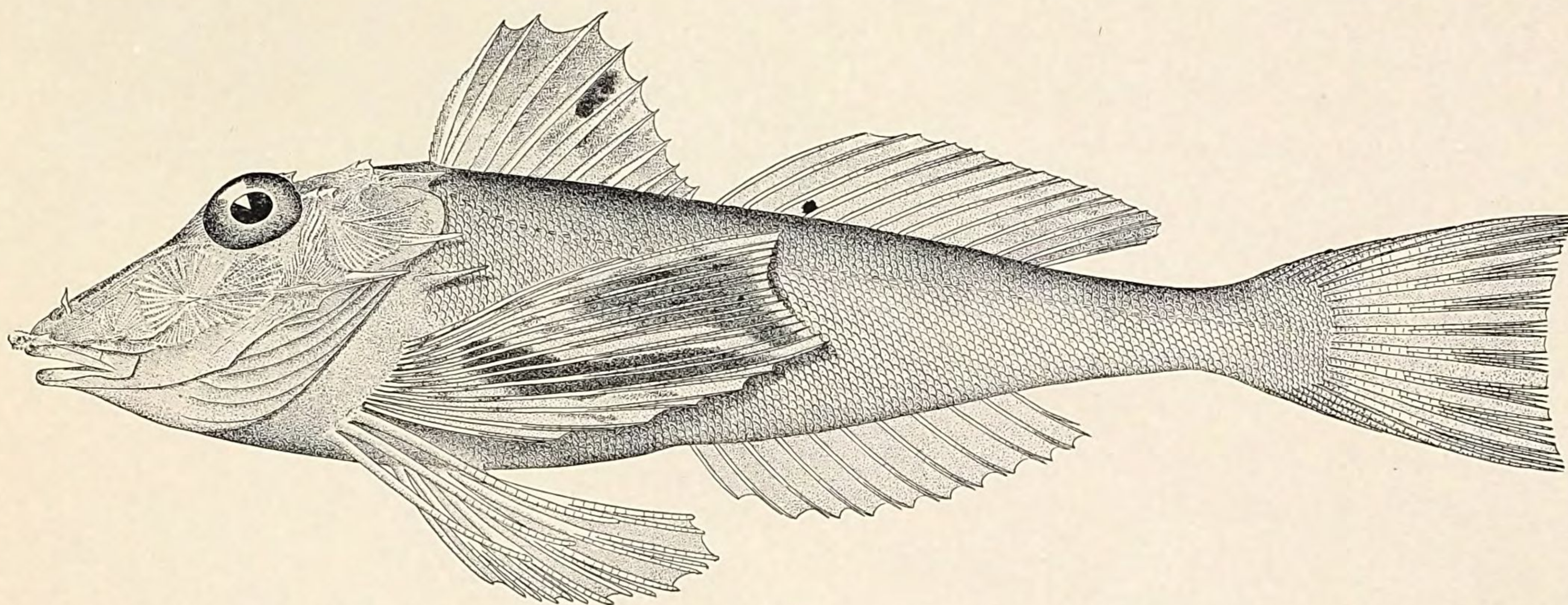


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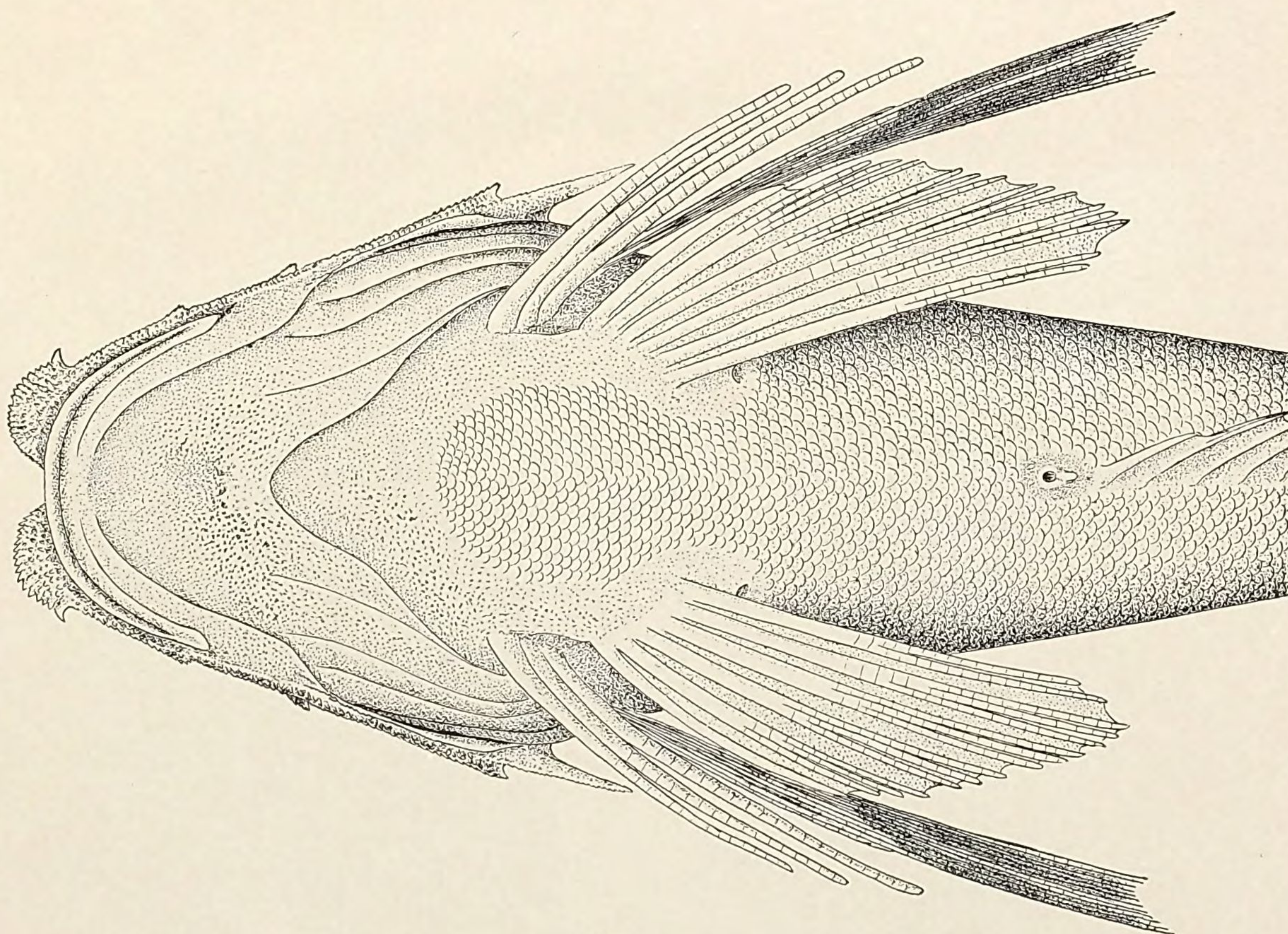
380. PRIONOTUS MILITARIS. (p. 464.)

381. PRIONOTUS EGRETTE. (p. 465.)

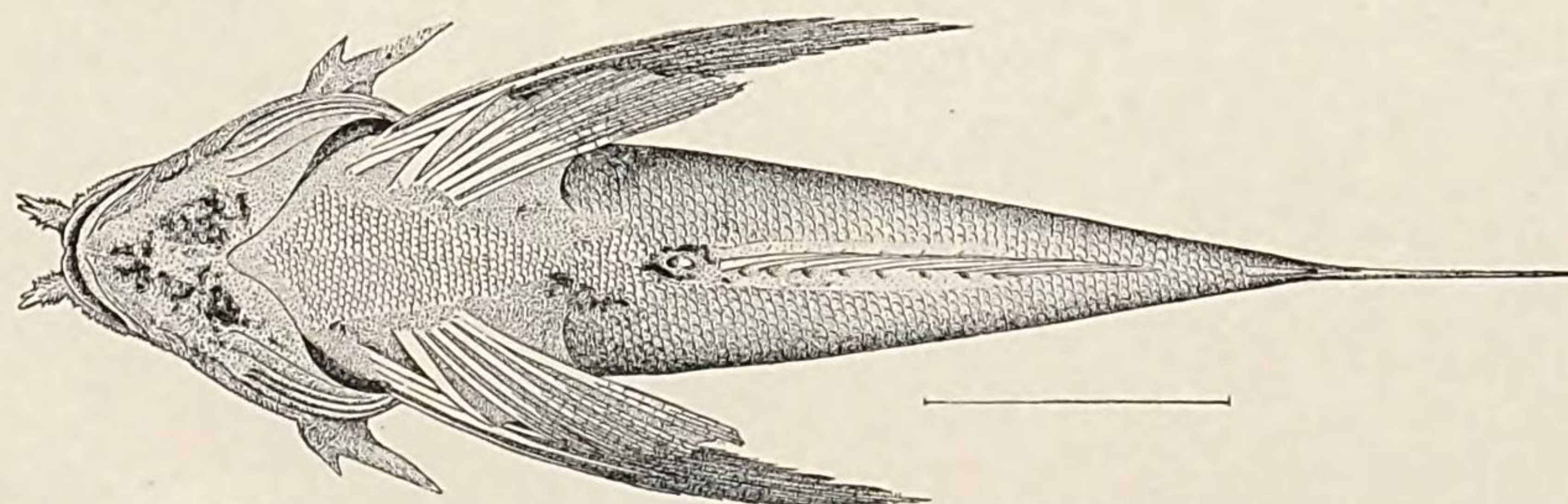
382. PRIONOTUS ALATUS. (p. 467.)



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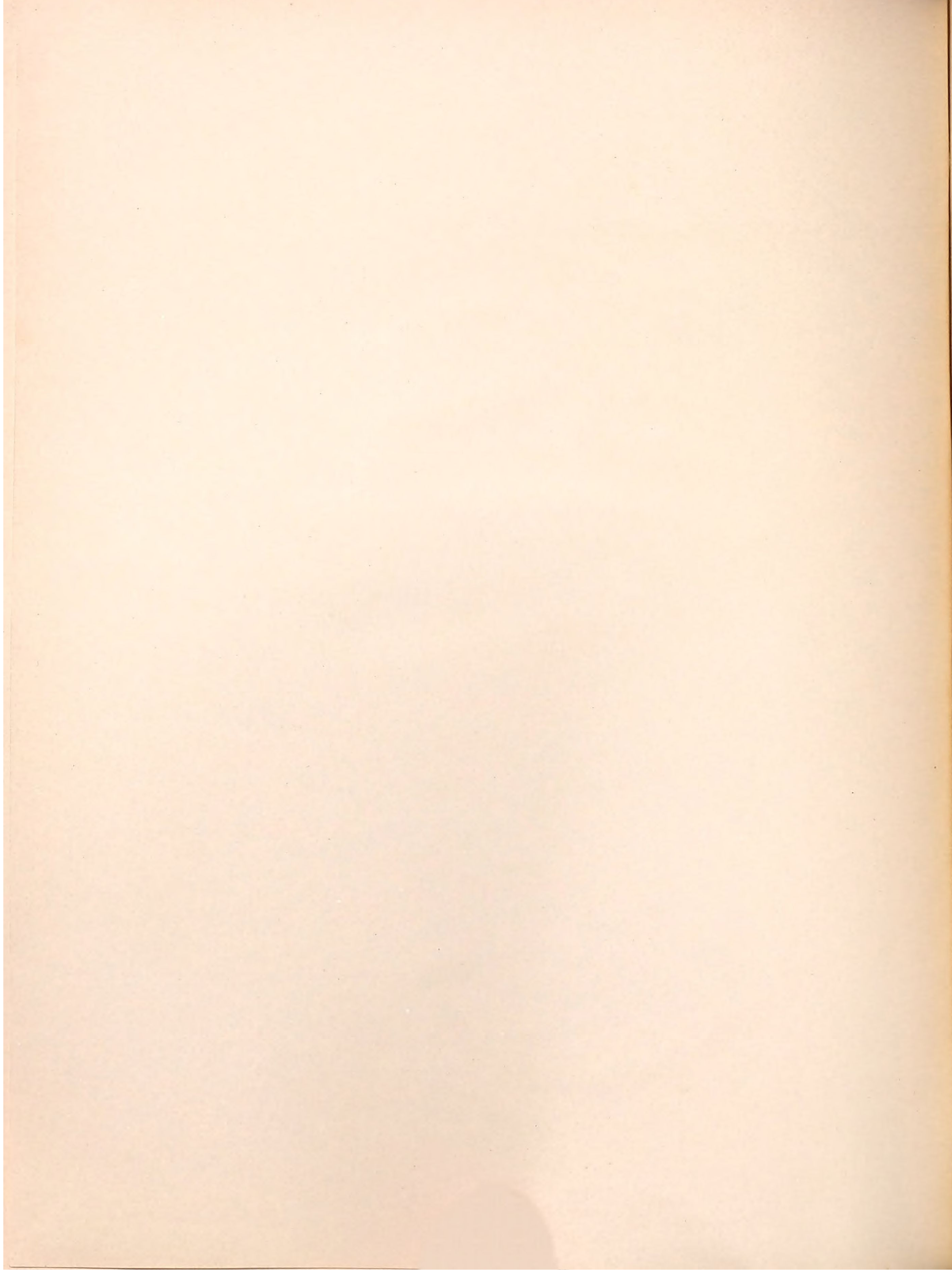
383b

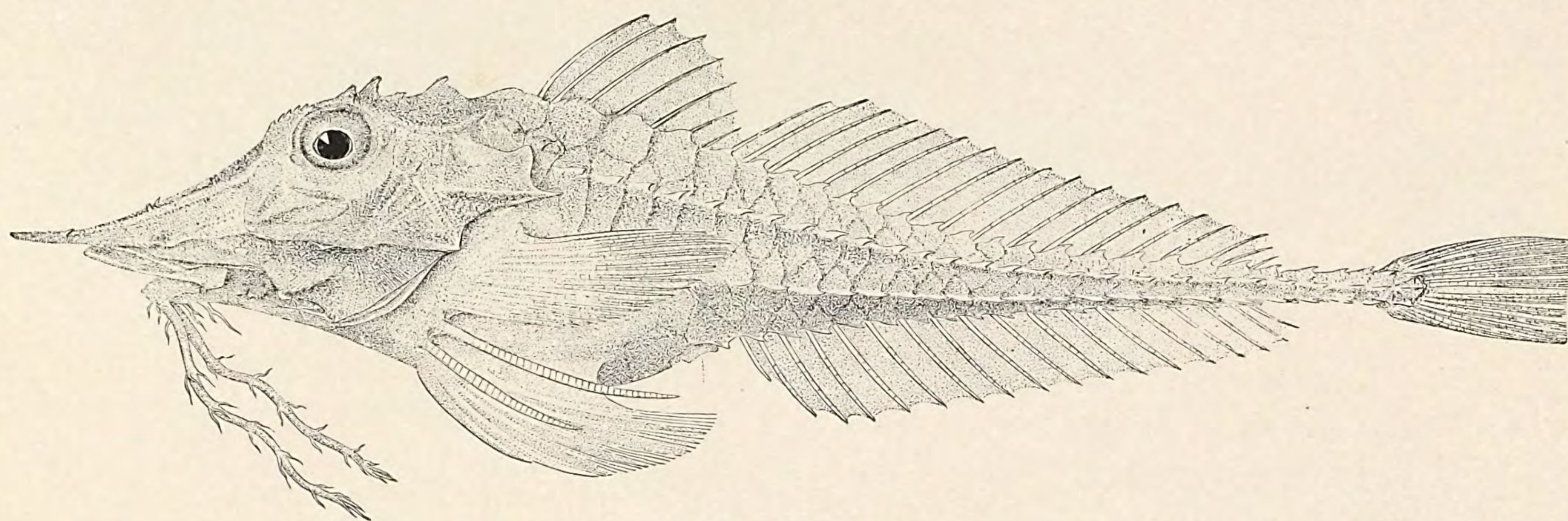


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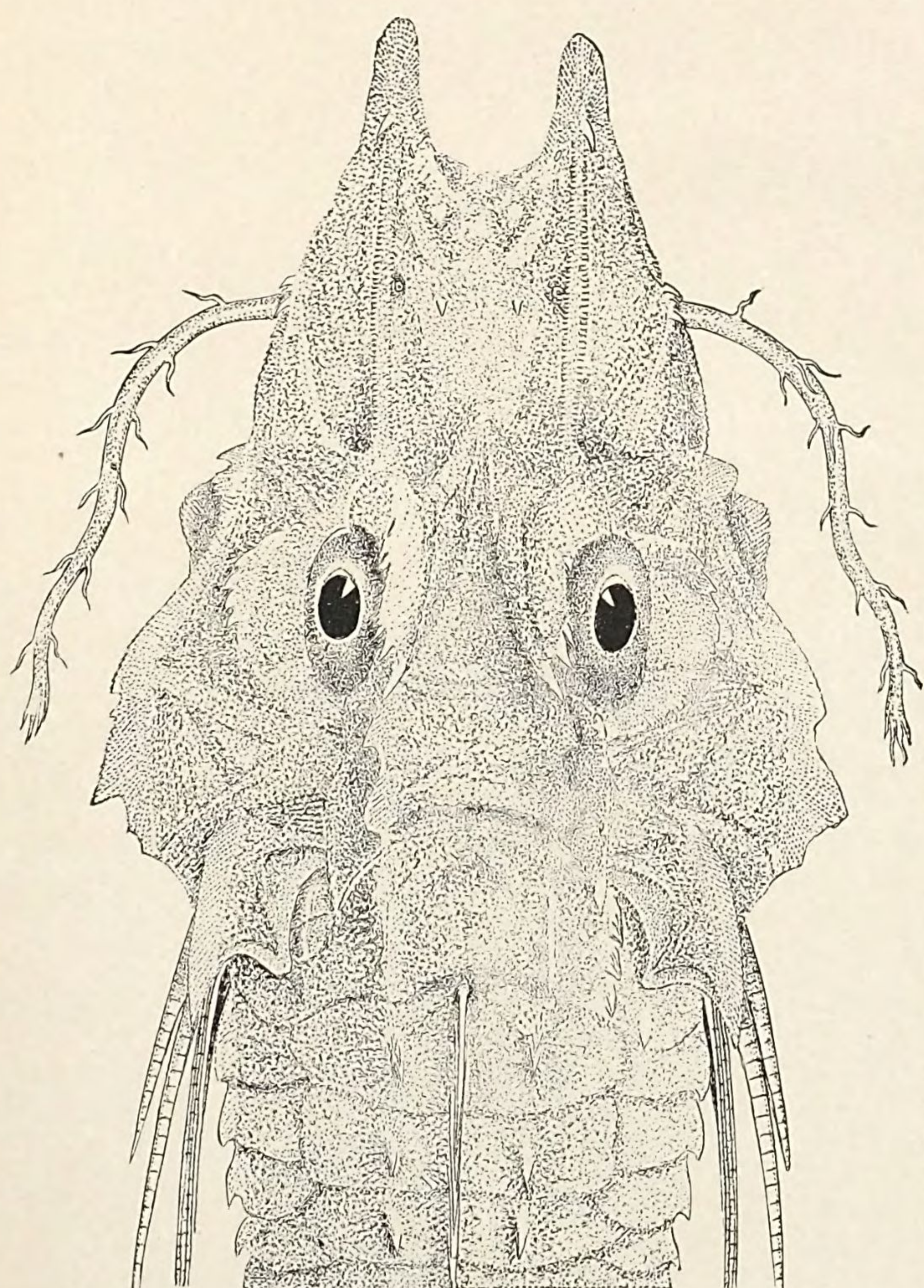
383, 383b. PRIONOTUS TRINITATIS. (p. 468.)

384. PRIONOTUS MILITARIS. (p. 464.)

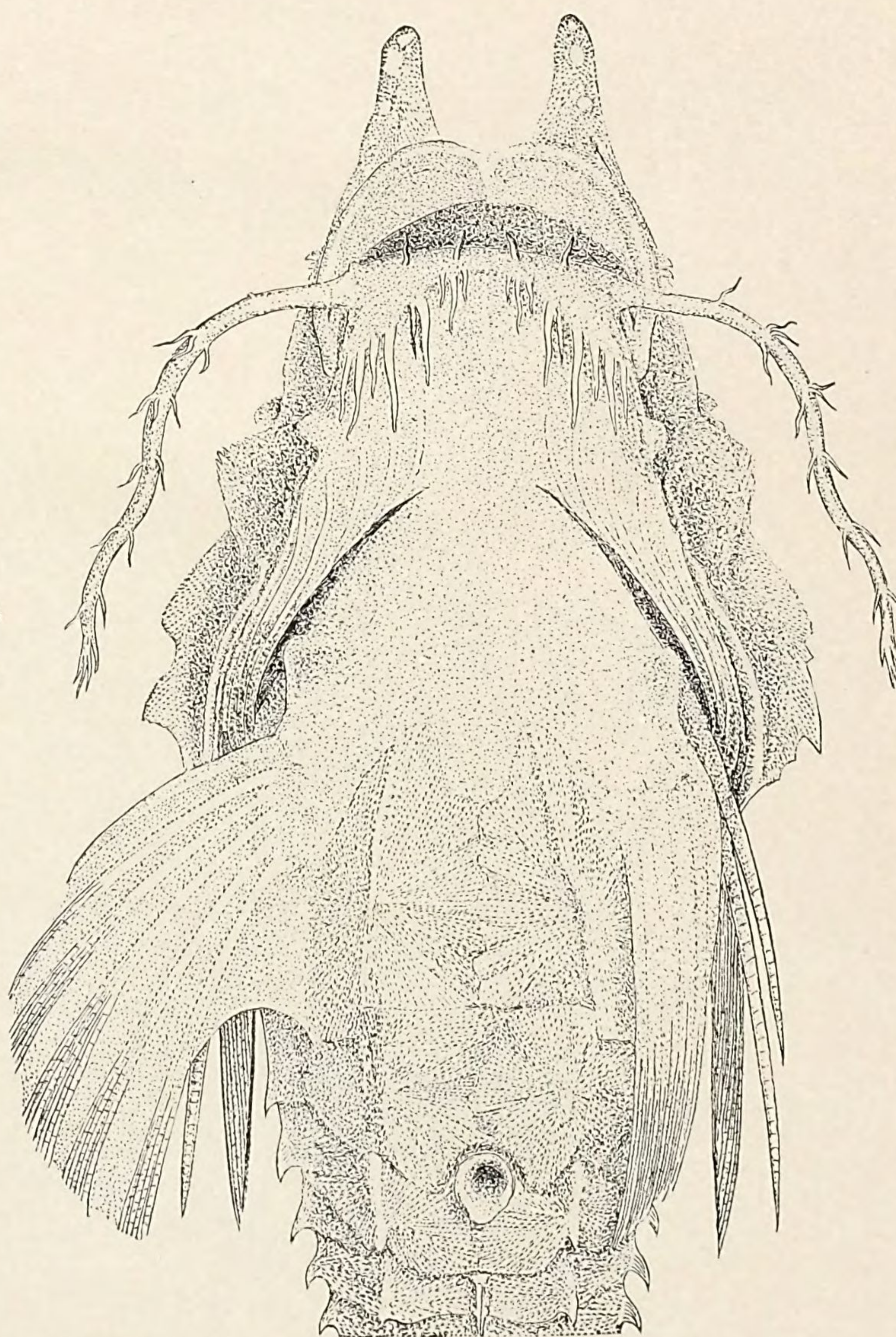




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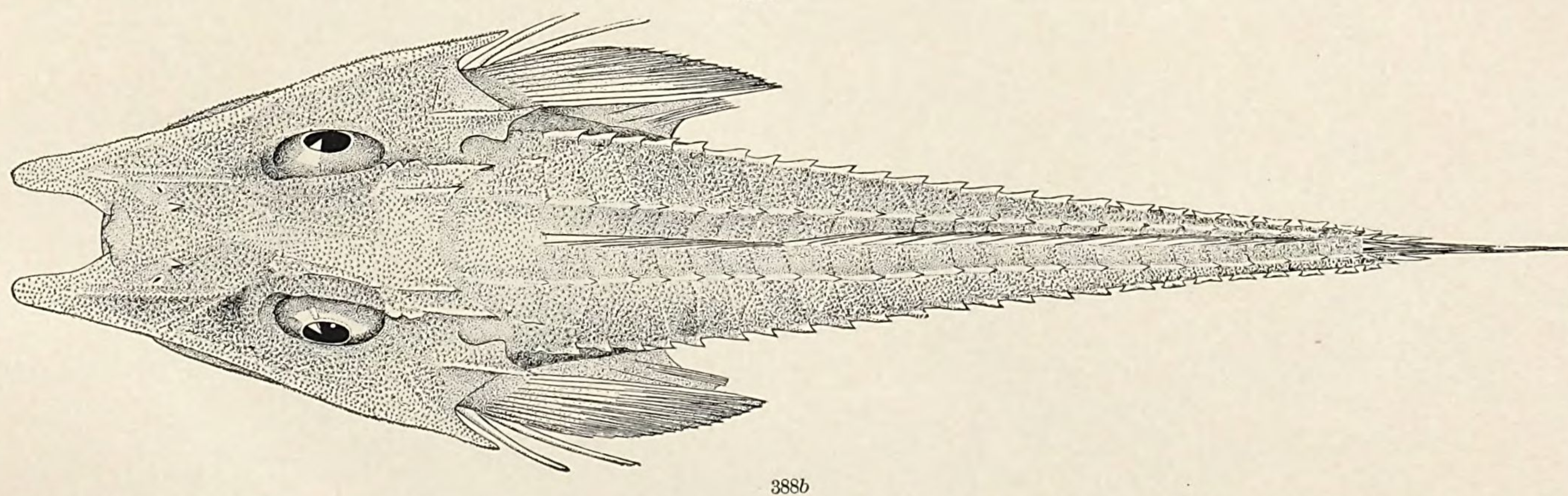
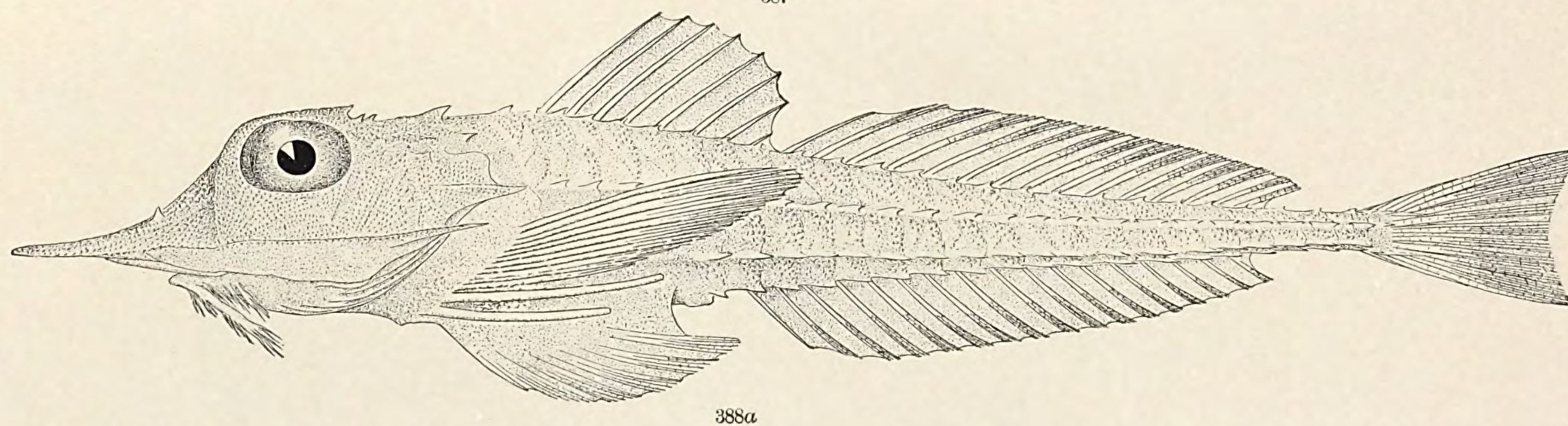
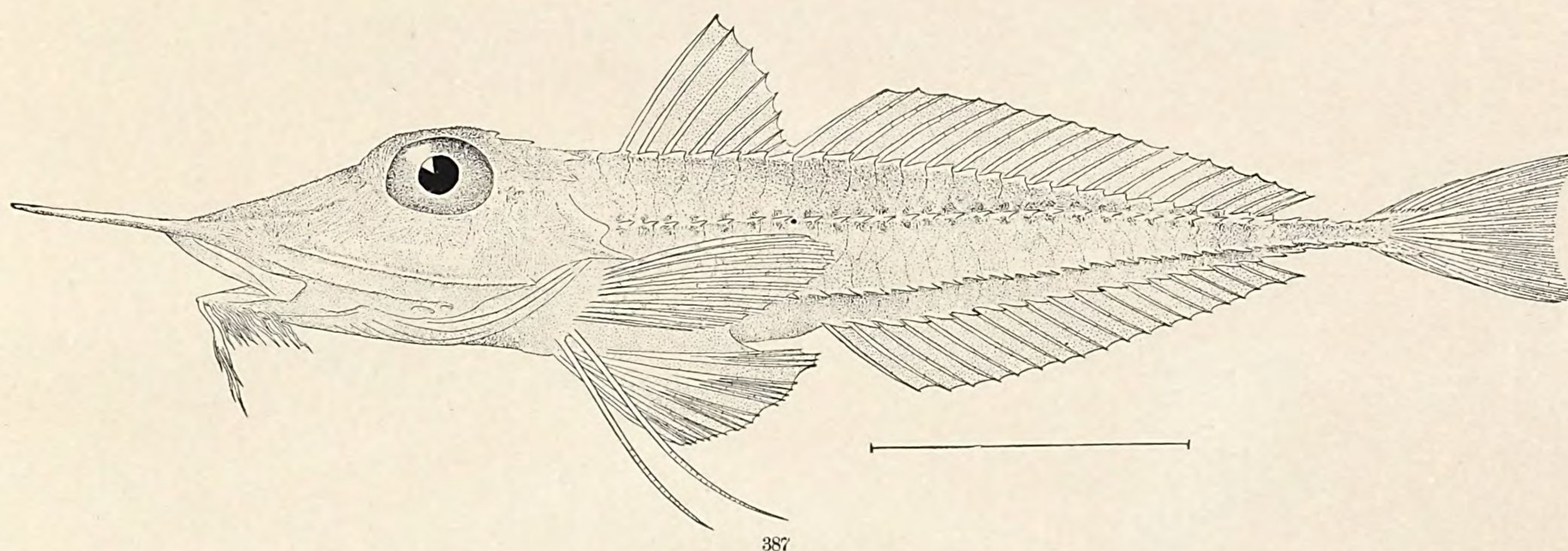
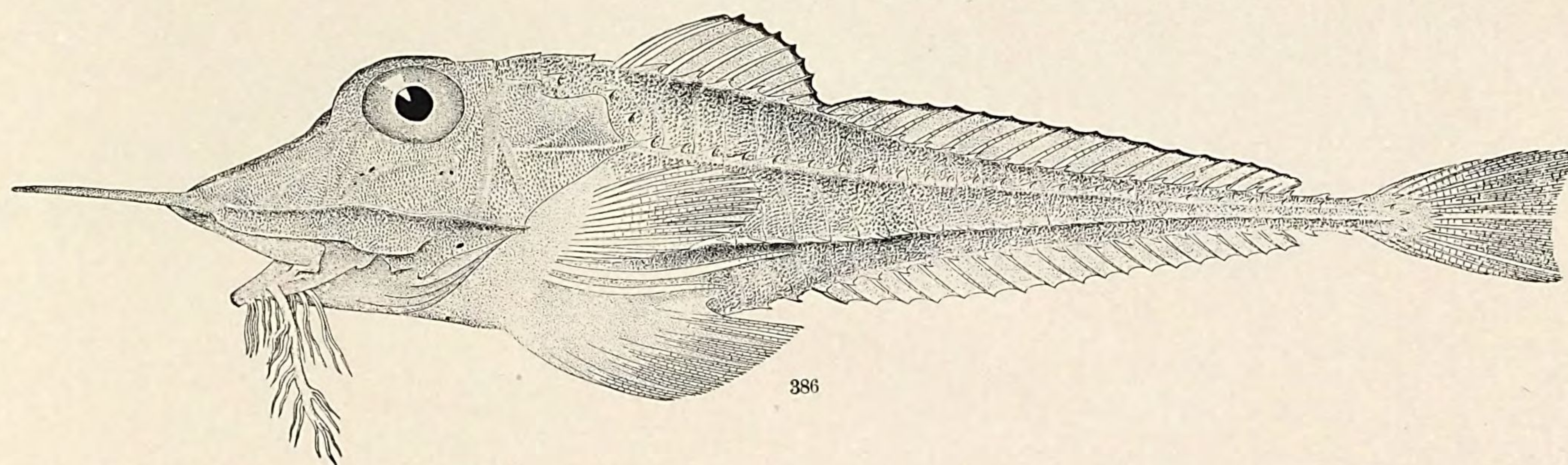


385a



385b

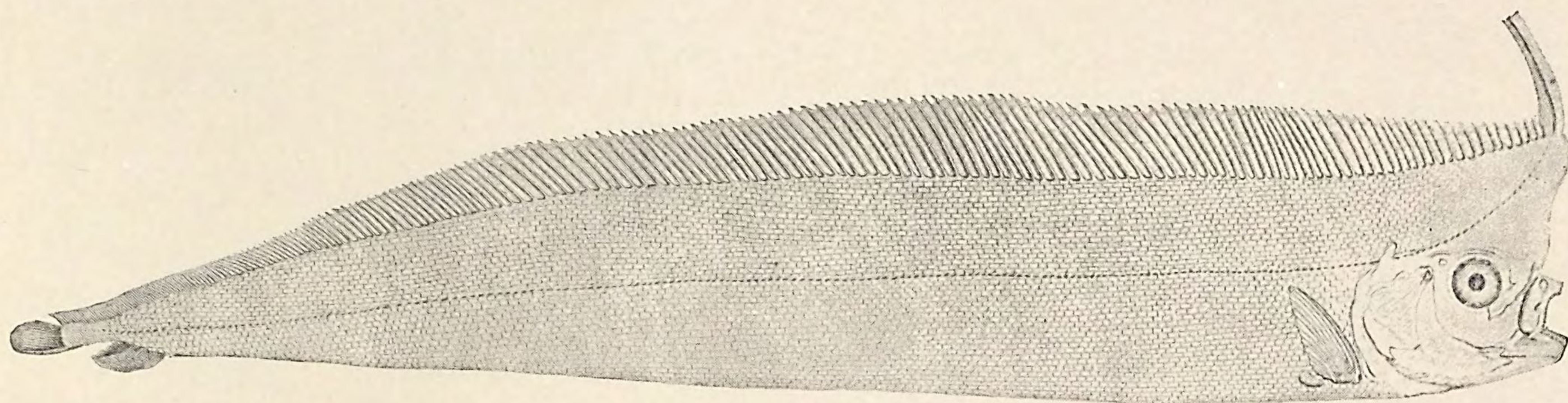
385, 385a, b. PERISTEDION MINIATUM. (p. 470.)



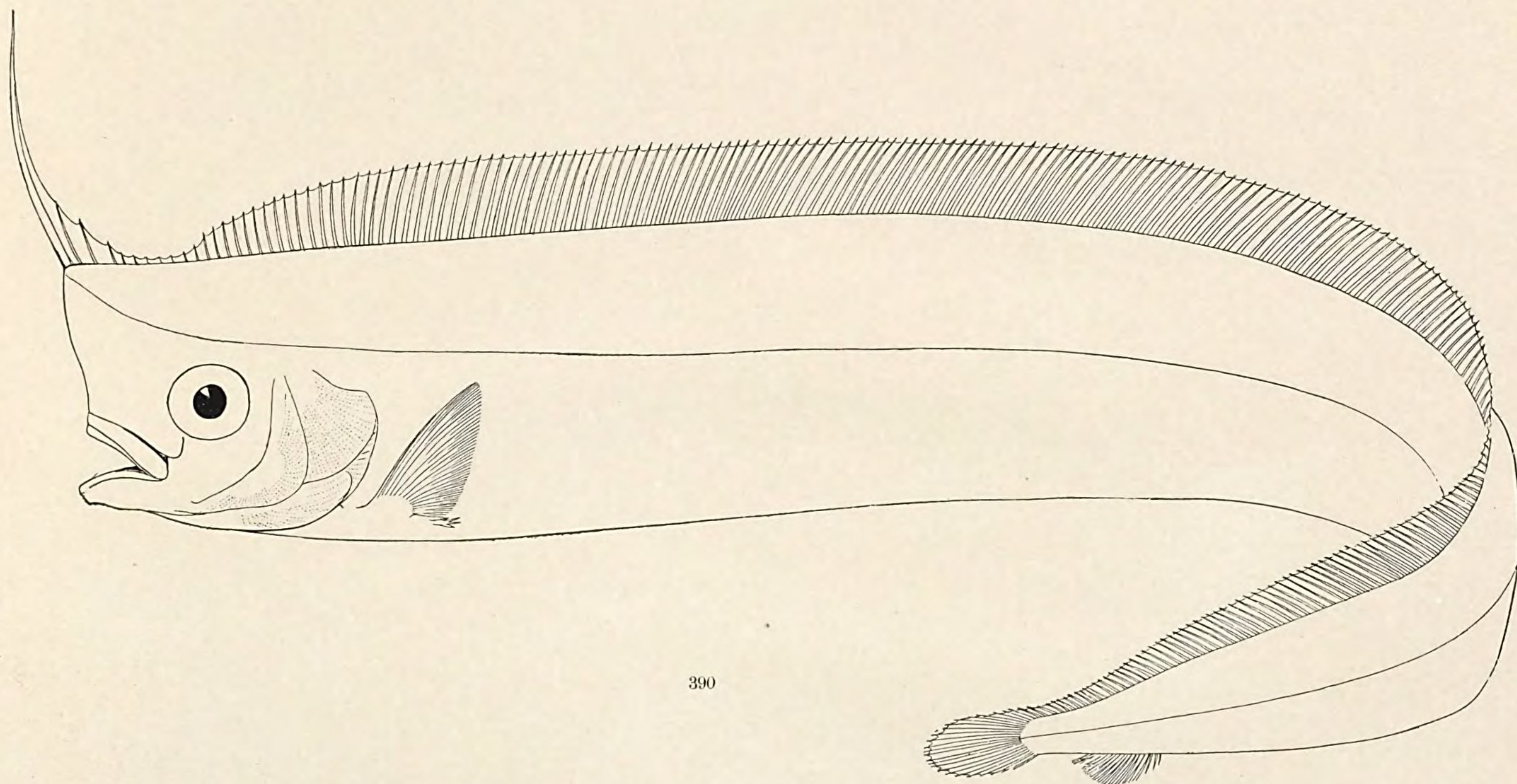
386. PERISTEDION LONGISPATHA. (p. 472.)

387. PERISTEDION GRACILE. (p. 473.)

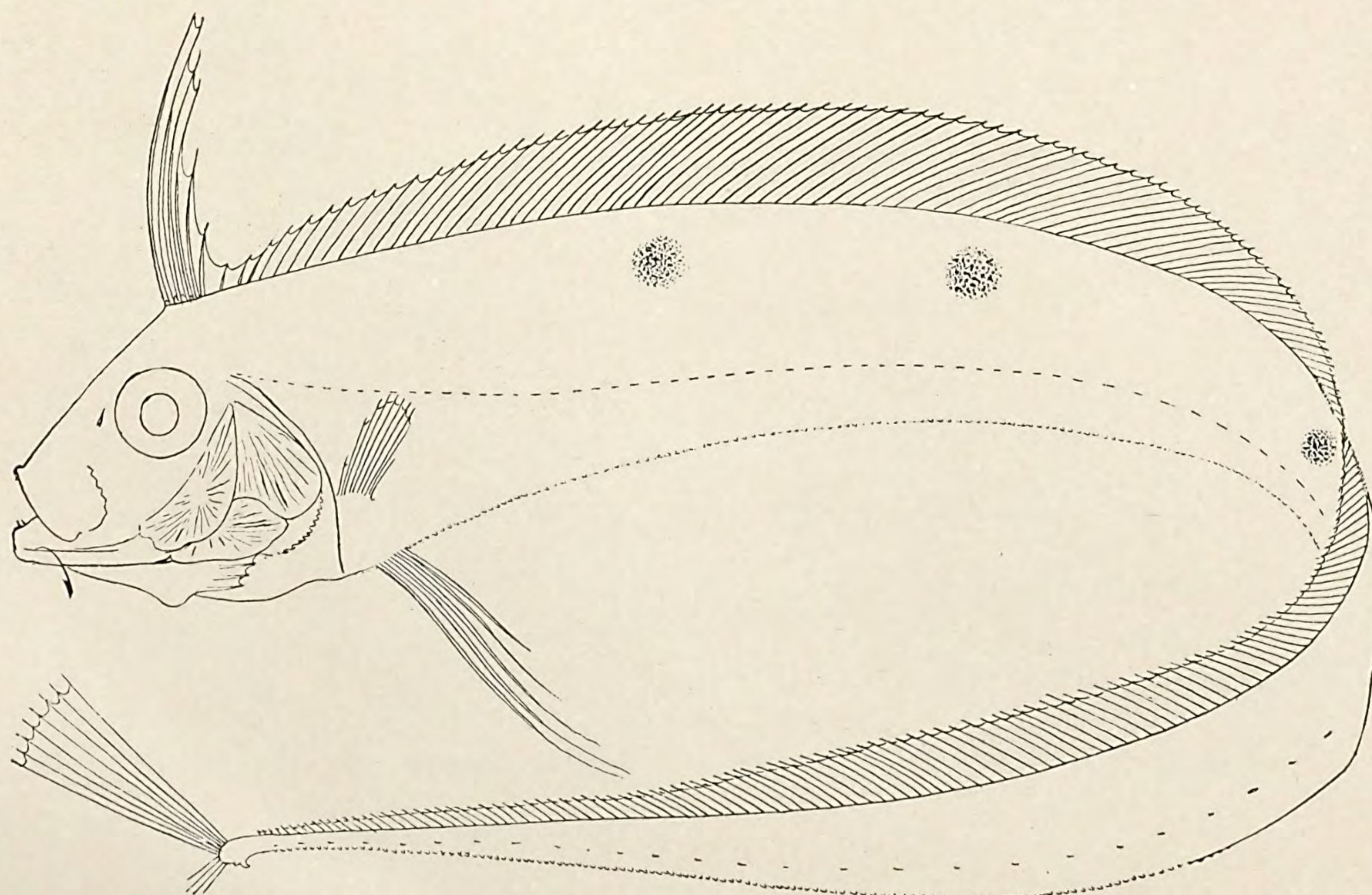
388a, b. PERISTEDION PLATYCEPHALUM. (p. 474.)



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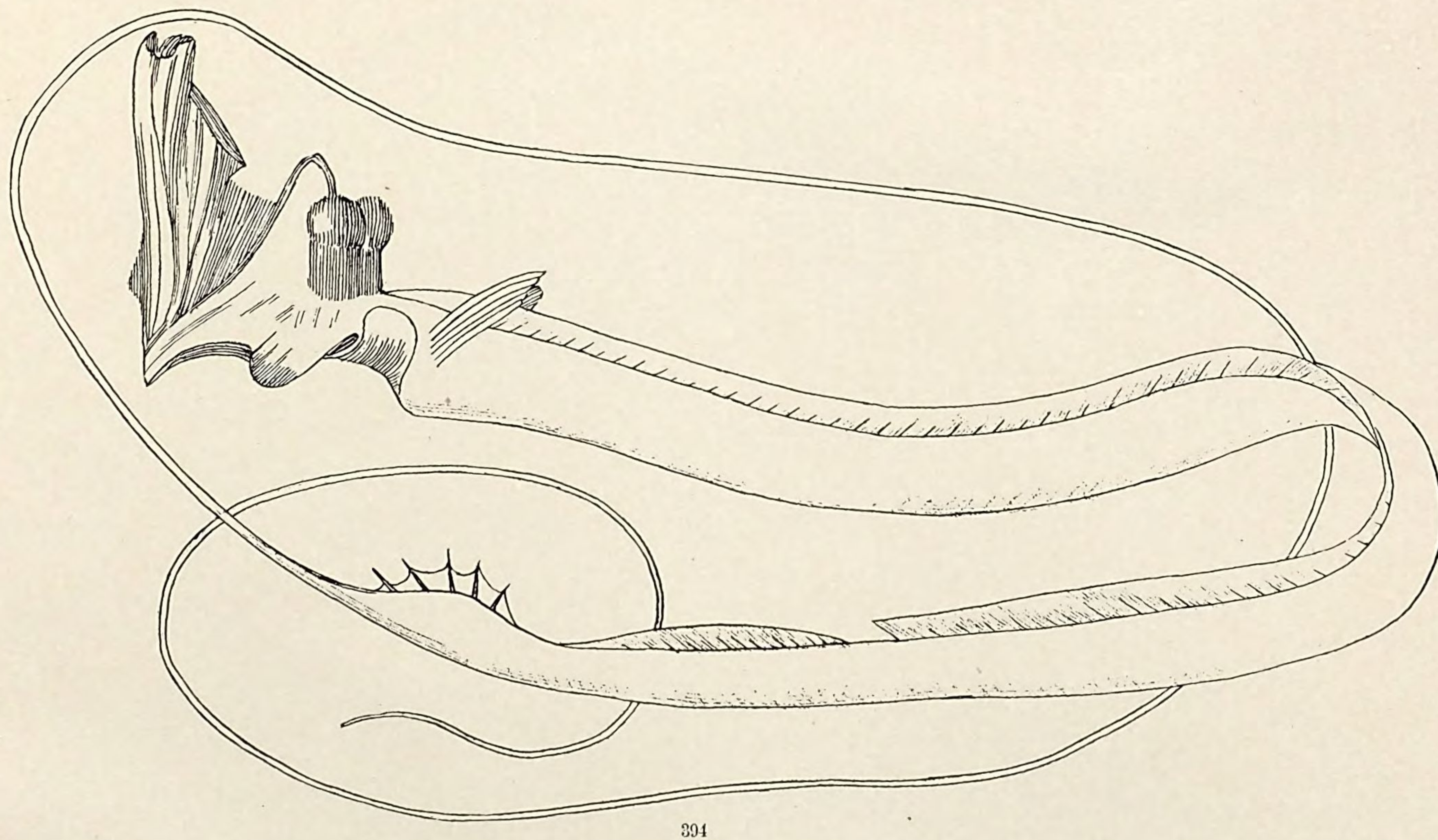
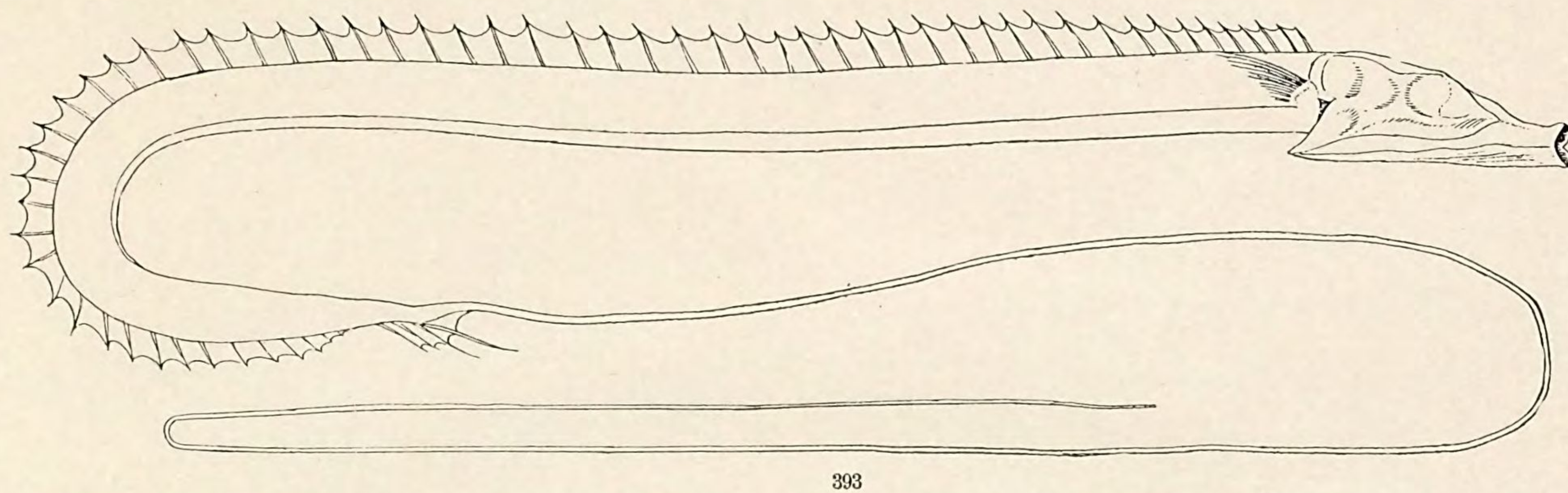
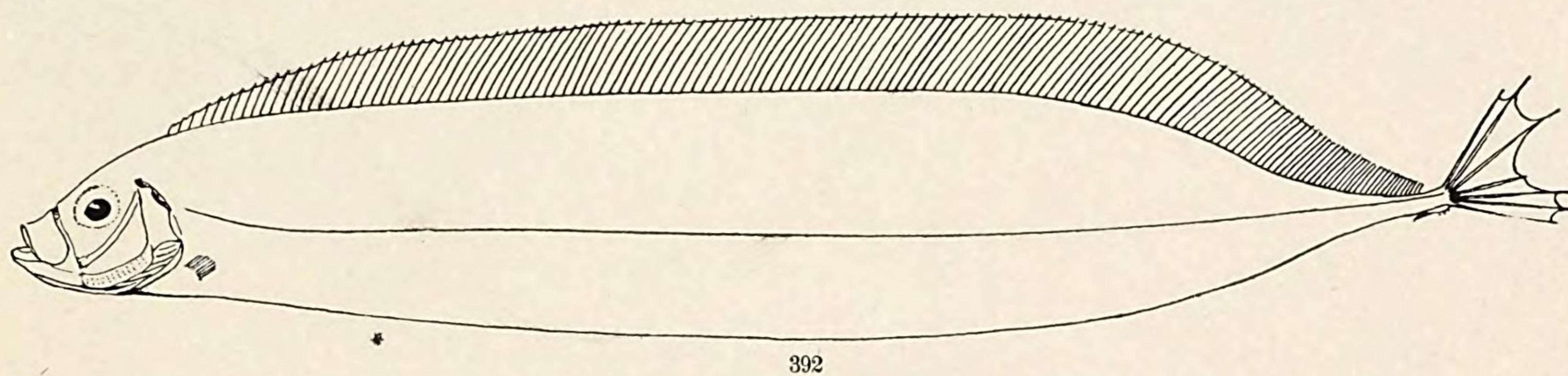


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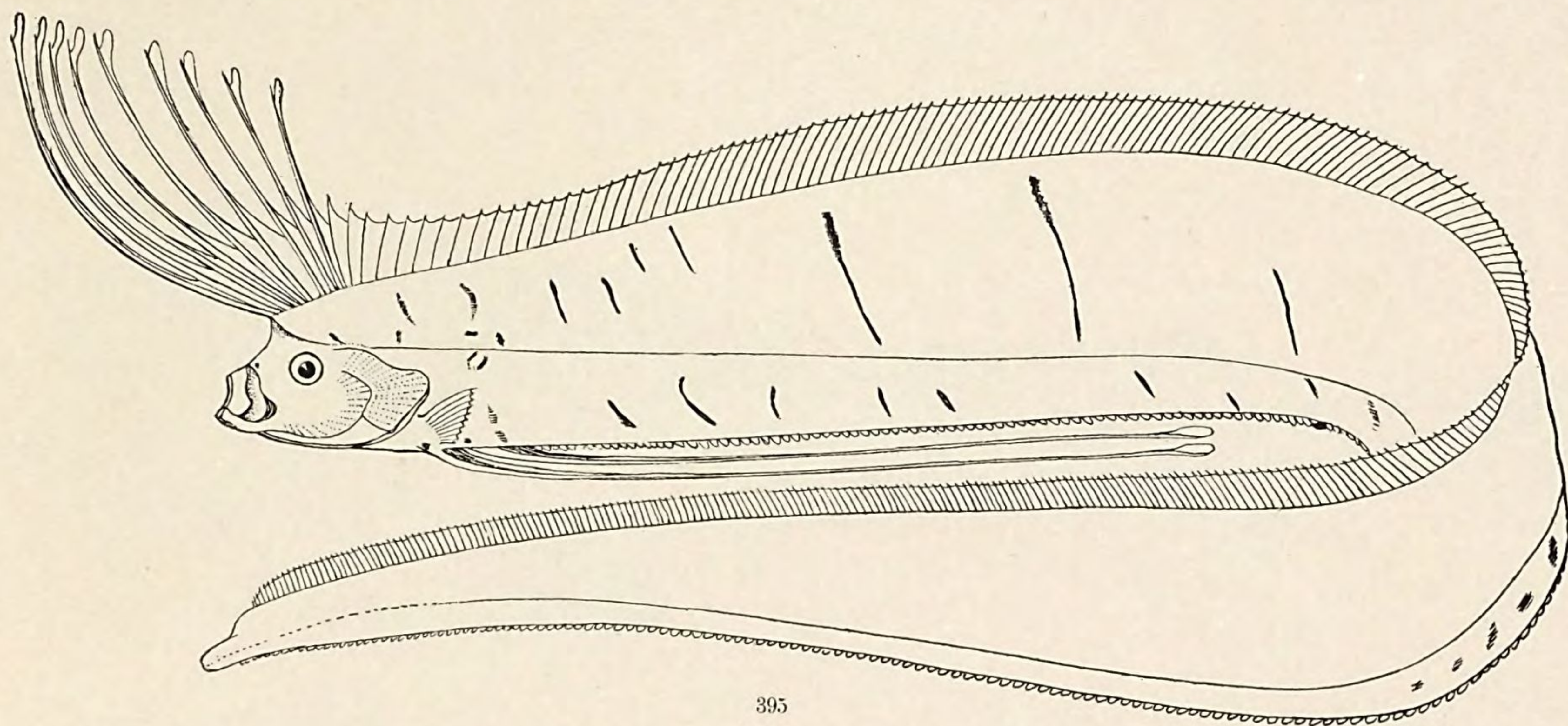
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389. LOPHOTES CEPEDIANUS. (p. 349.) 390. LOPHOTES CAPELLEI. (p. 351.)
391. TRACHYPTERUS IRIS. (p. 477.)

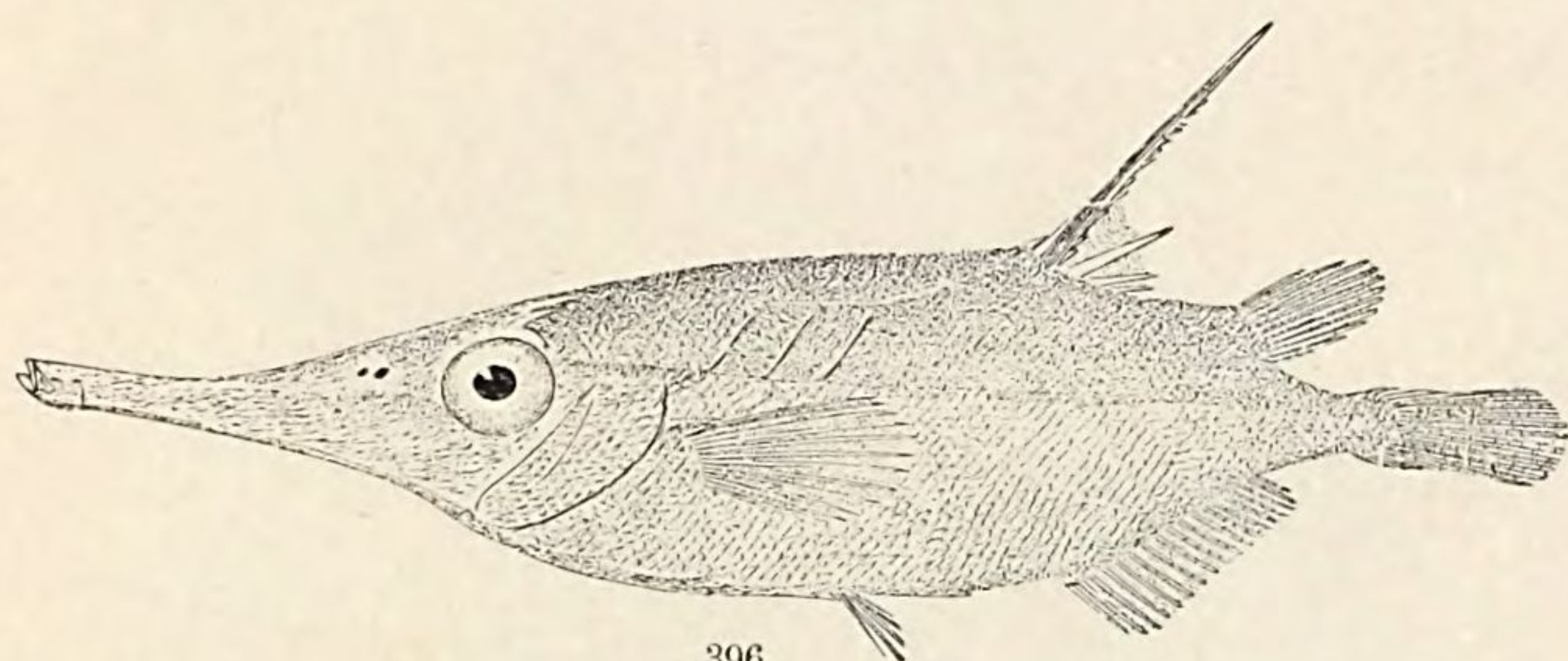


392. TRACHYPTERUS ARCTICUS. (p. 479.)

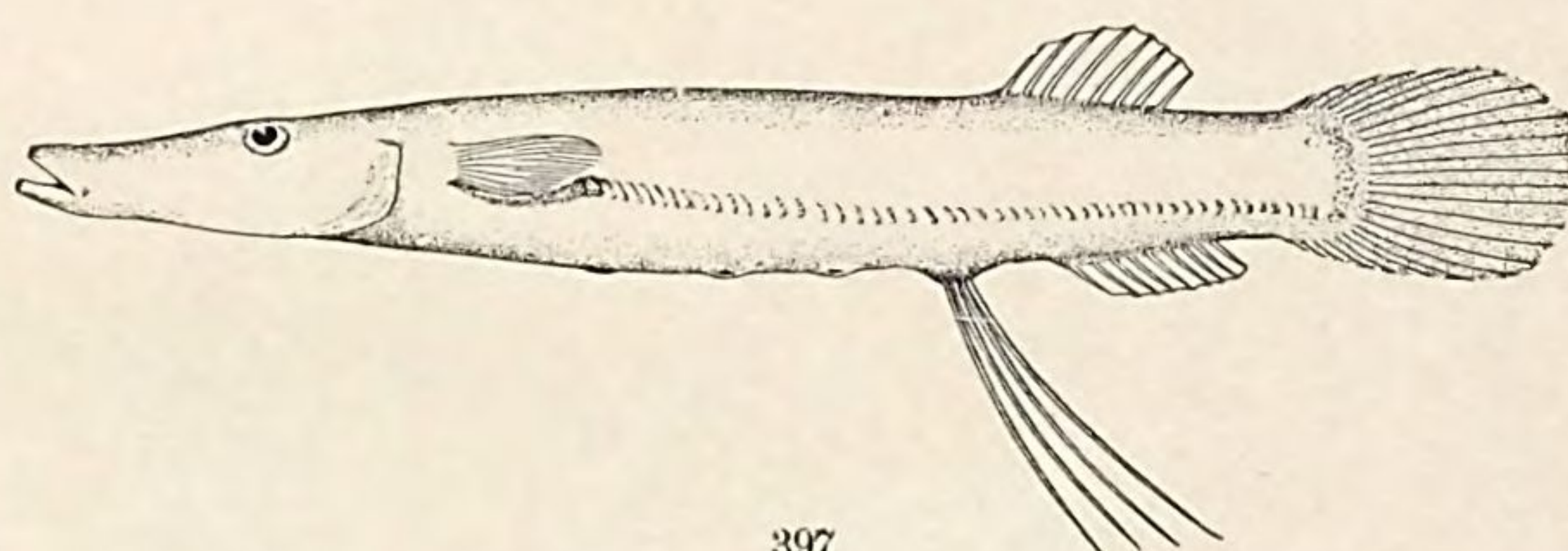
393, 394. STYLEPHORUS CHORDATUS. (p. 482.)



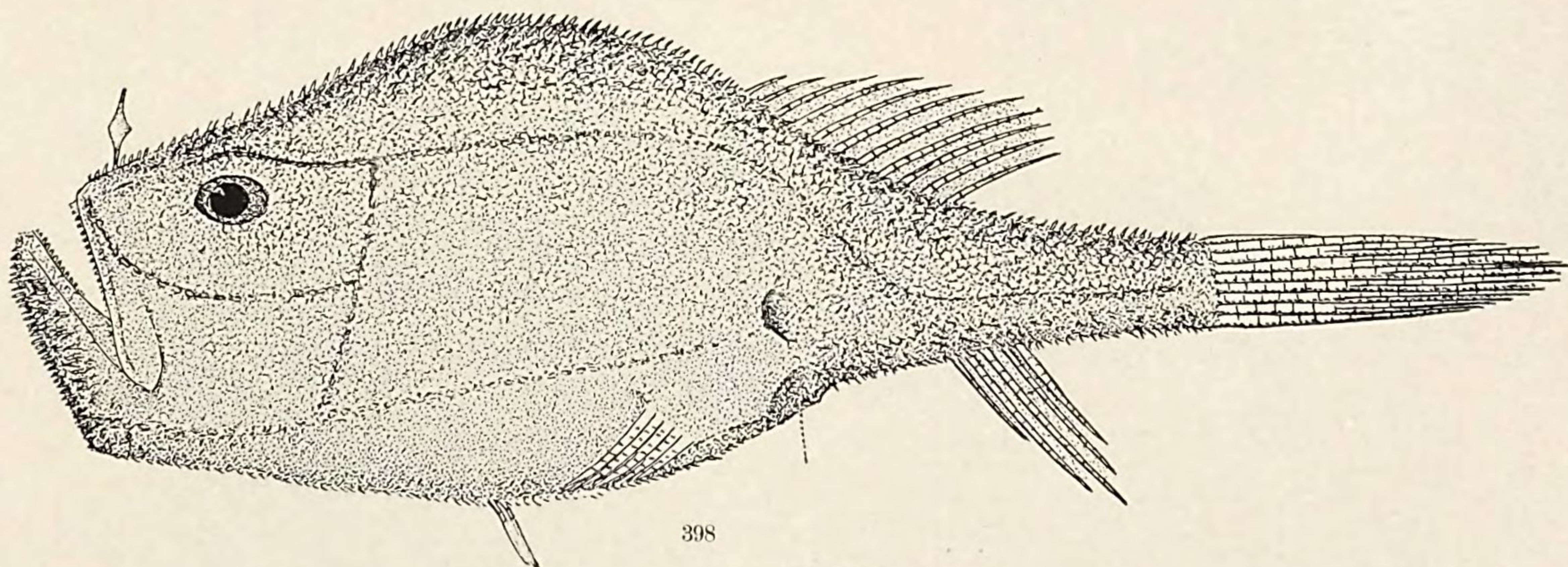
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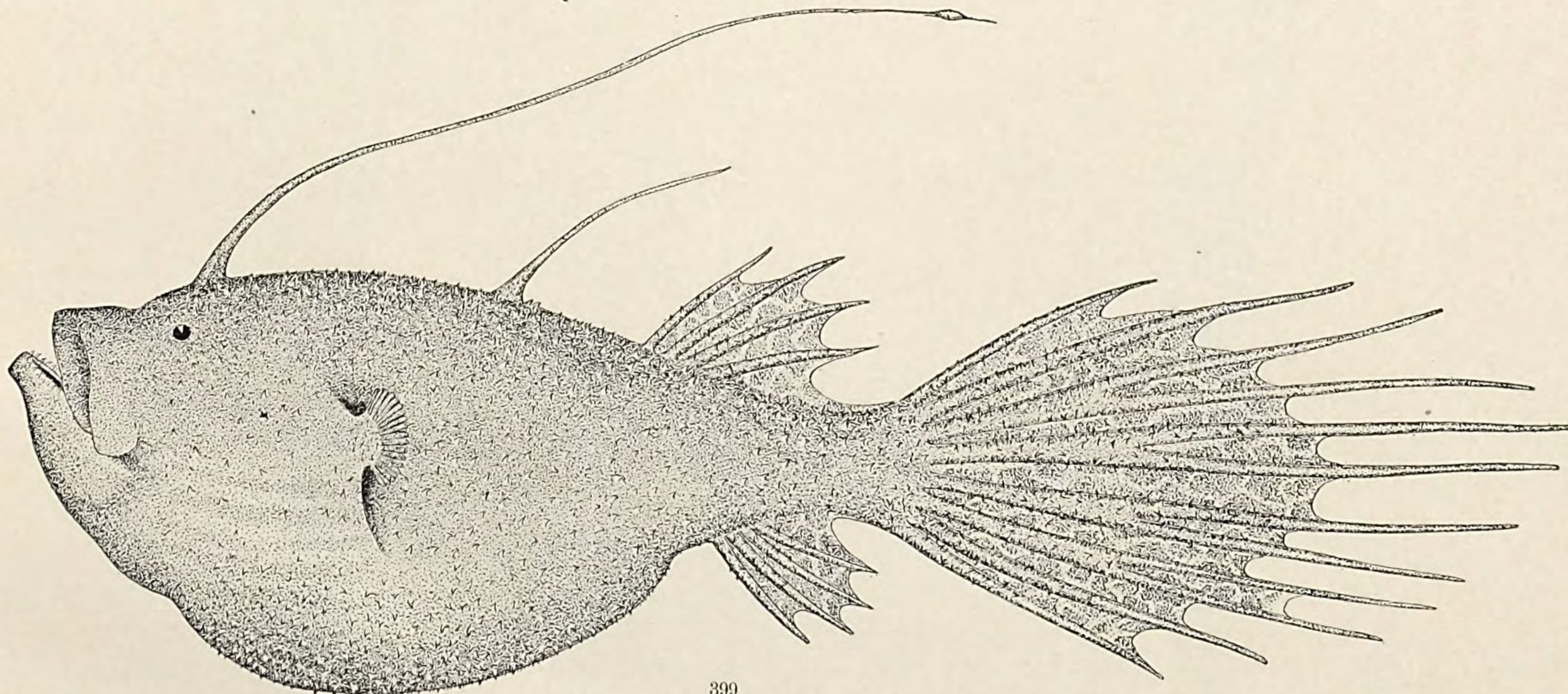
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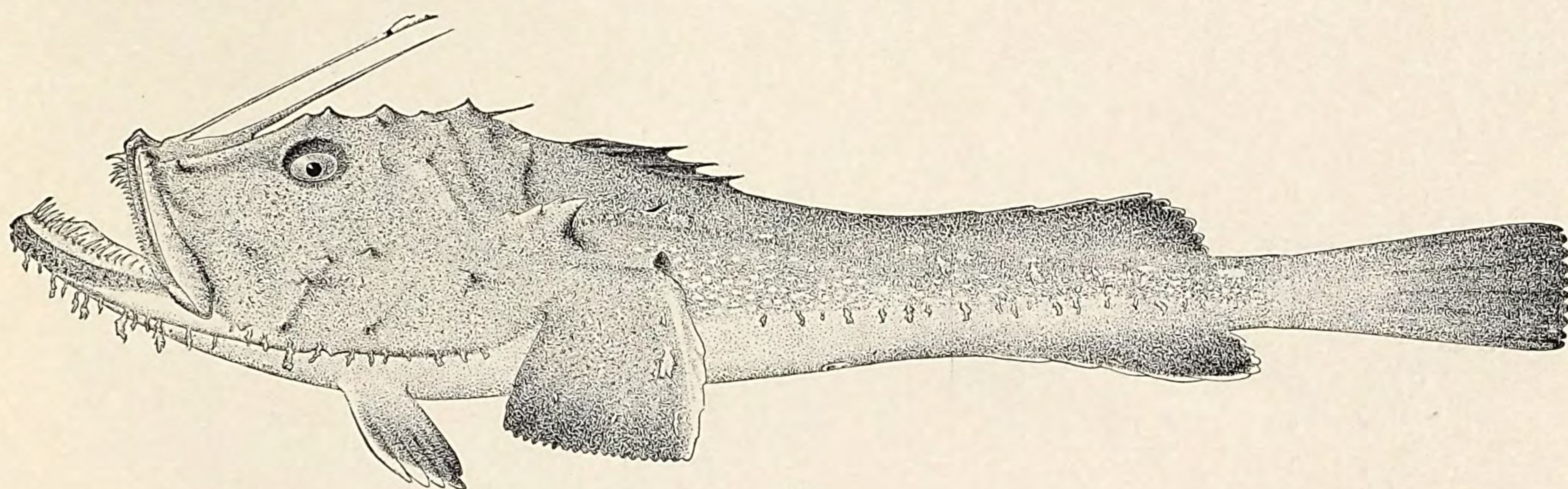


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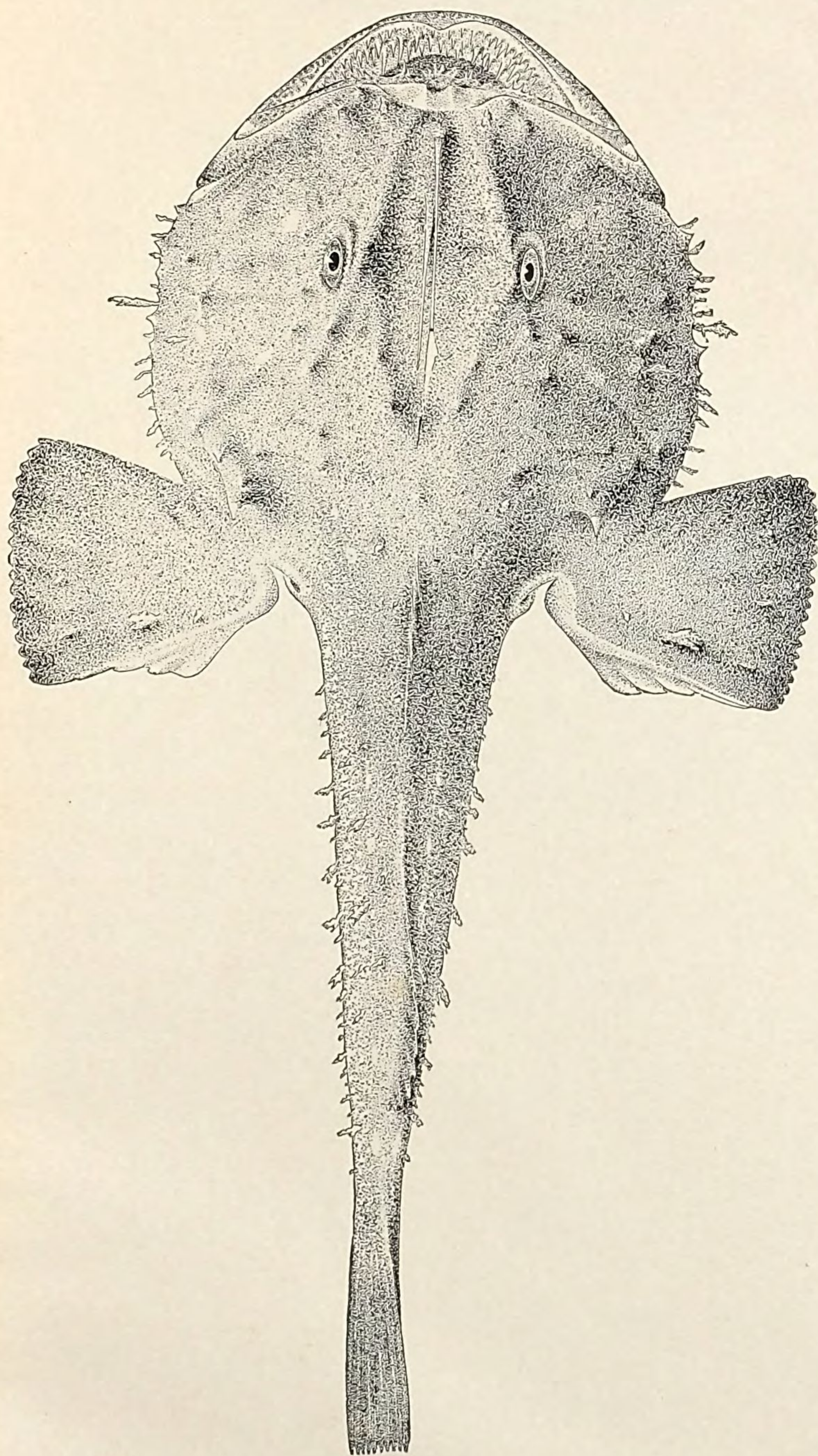


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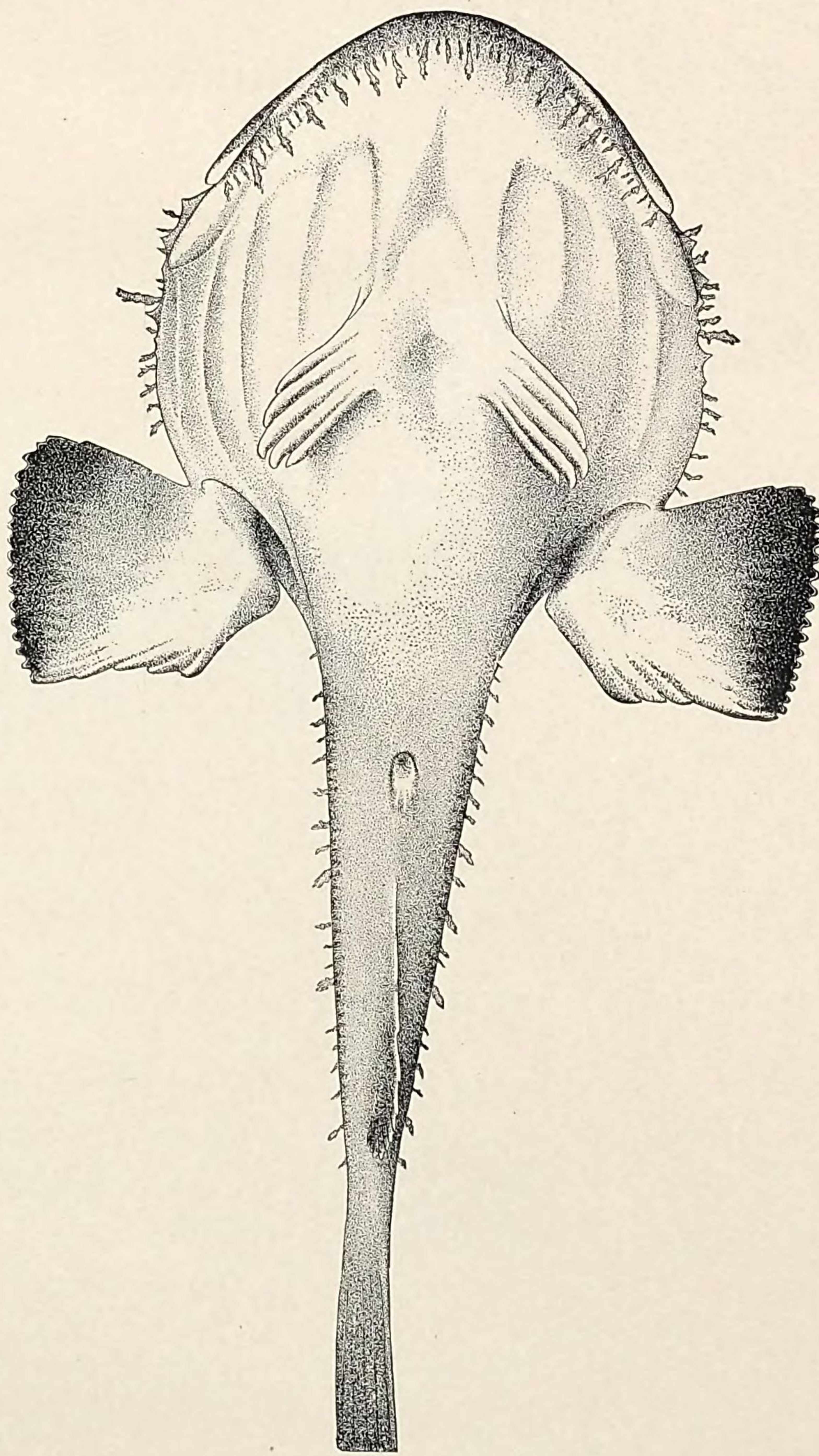
395. REGALECUS GLENE. (p. 480.) 396. MACRORHAMPHOSUS SCOLOPAX. (p. 483.) 397. AULOSTOMA LONGIPES. (p. 484.)
398. CHAUNAX PICTUS. (p. 487.) 399. CERATIAS HOLBÜLLI. (p. 489.)



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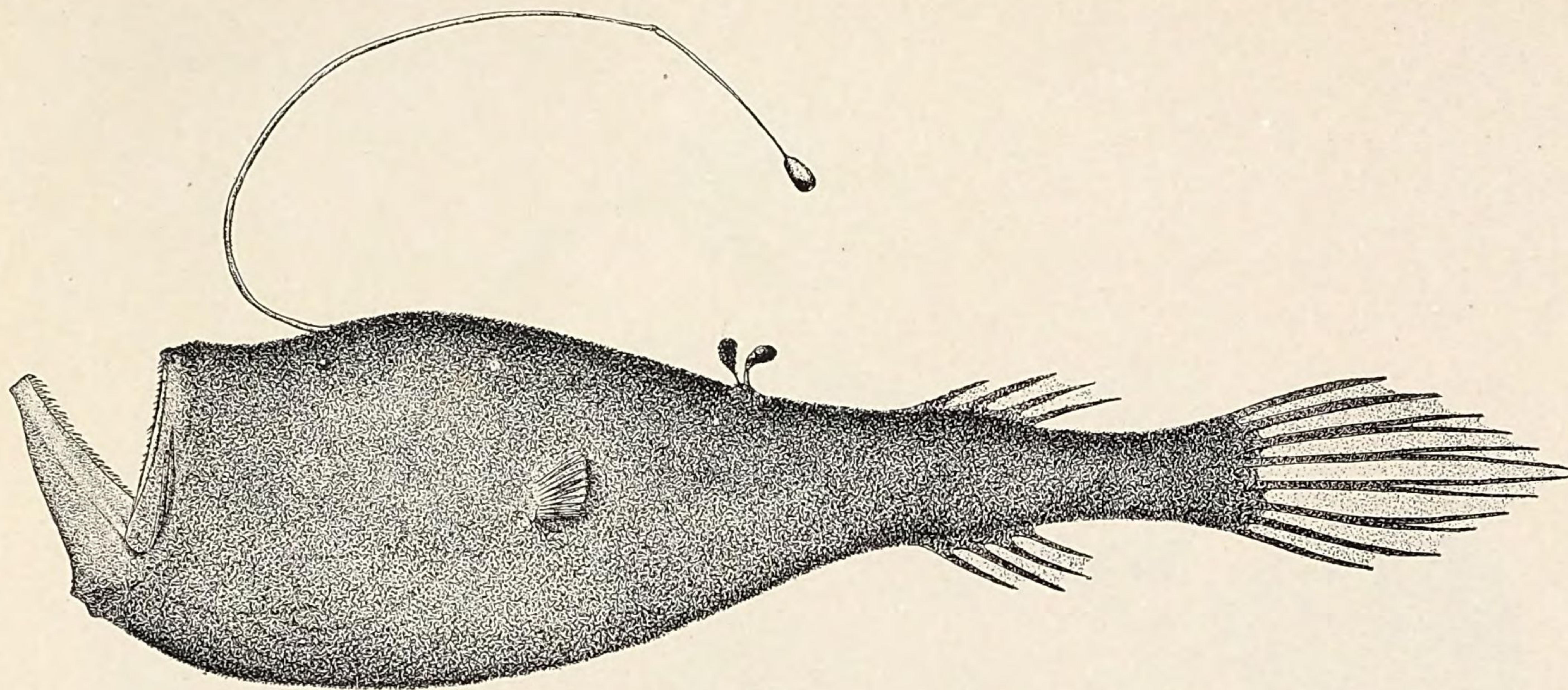


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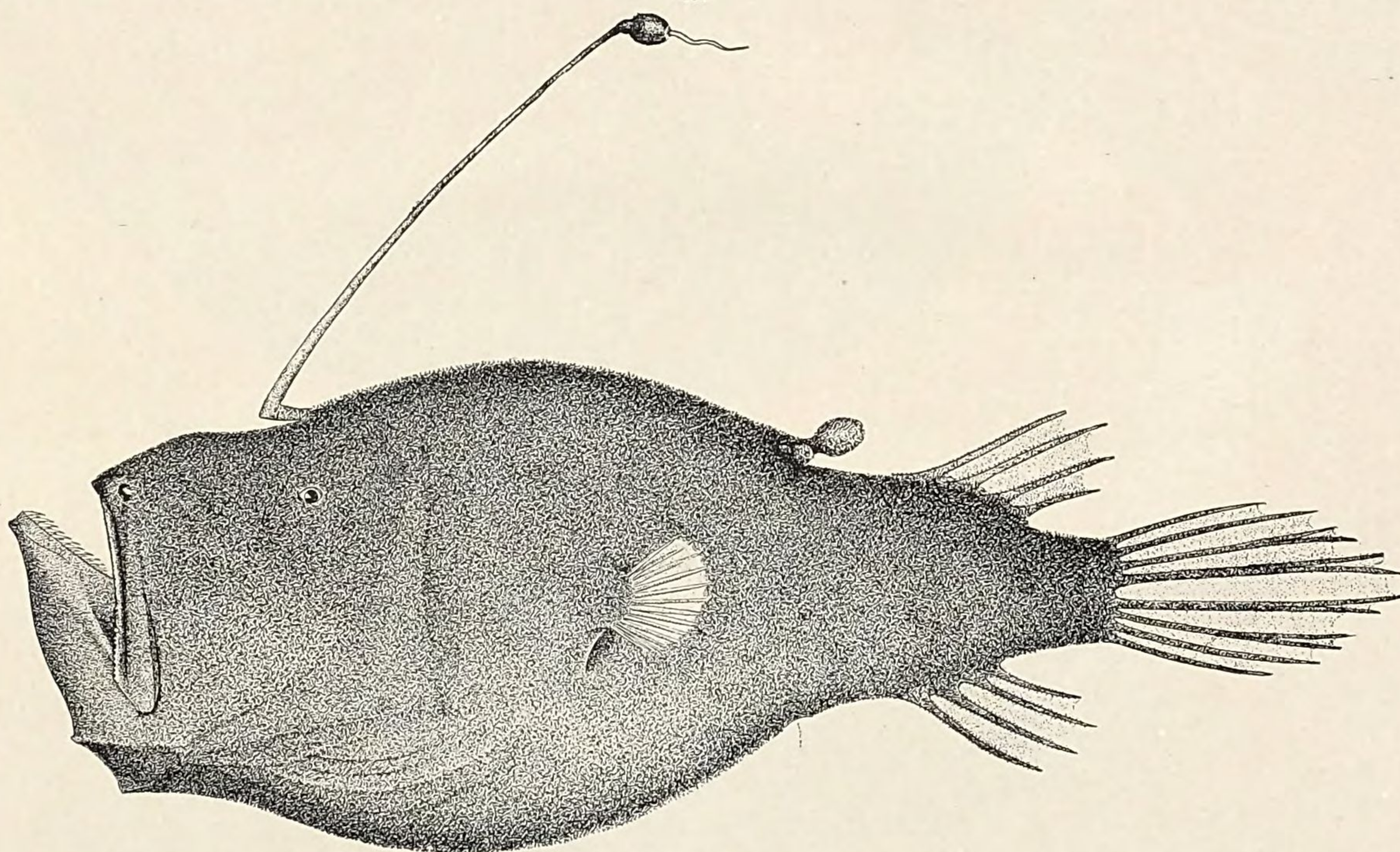


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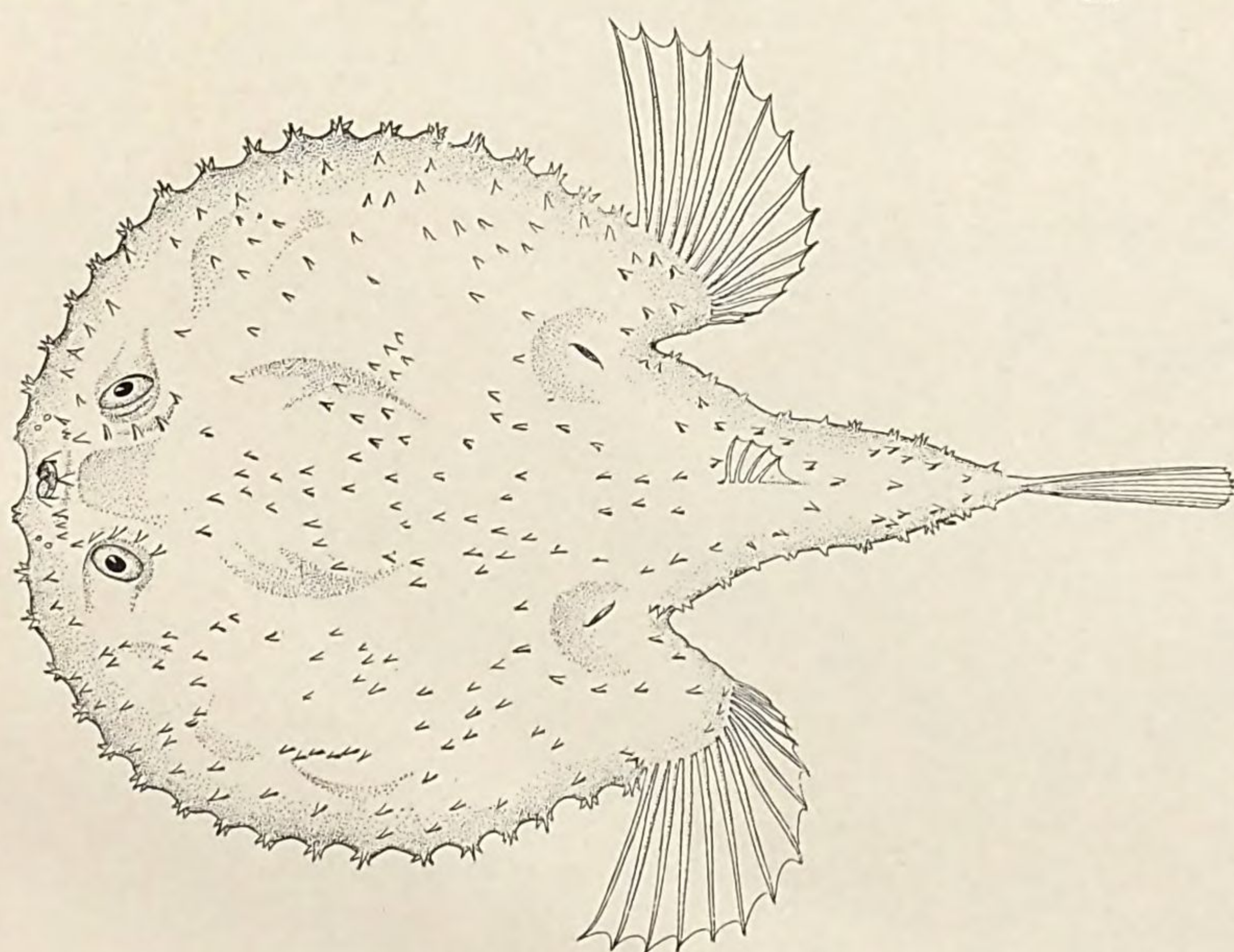
400, 400a, b. *LOPHIUS PISCATORIUS*. (p. 485.)



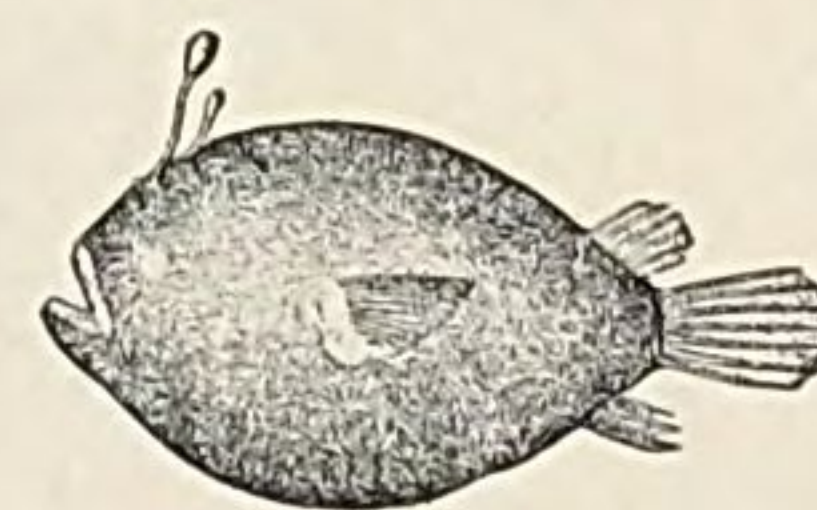
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402



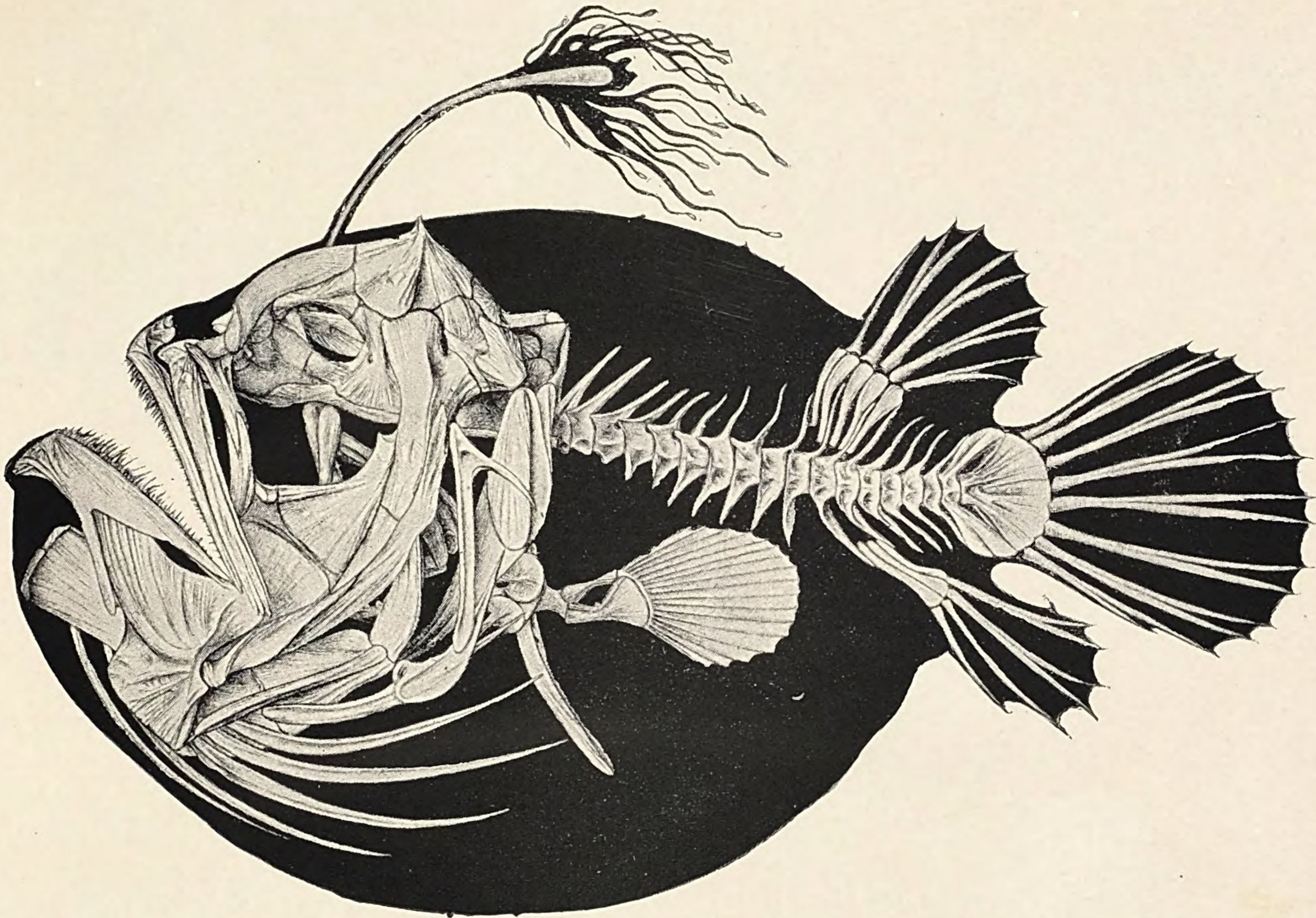
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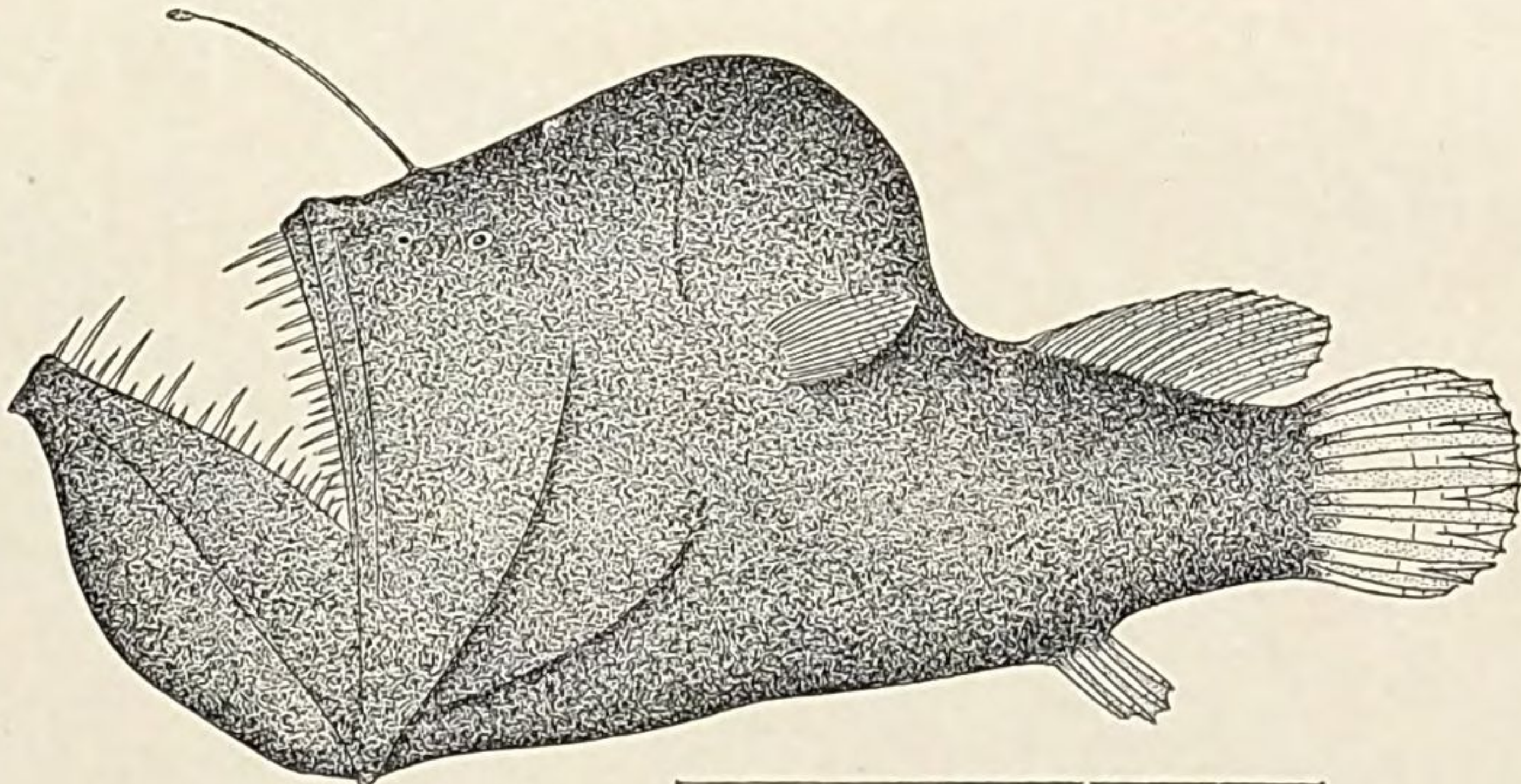
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401. *MANCALIAS SHUFELDTII*. (p. 490.)
403. *HALIEUTÆA STELLATA*. (p. 499.)

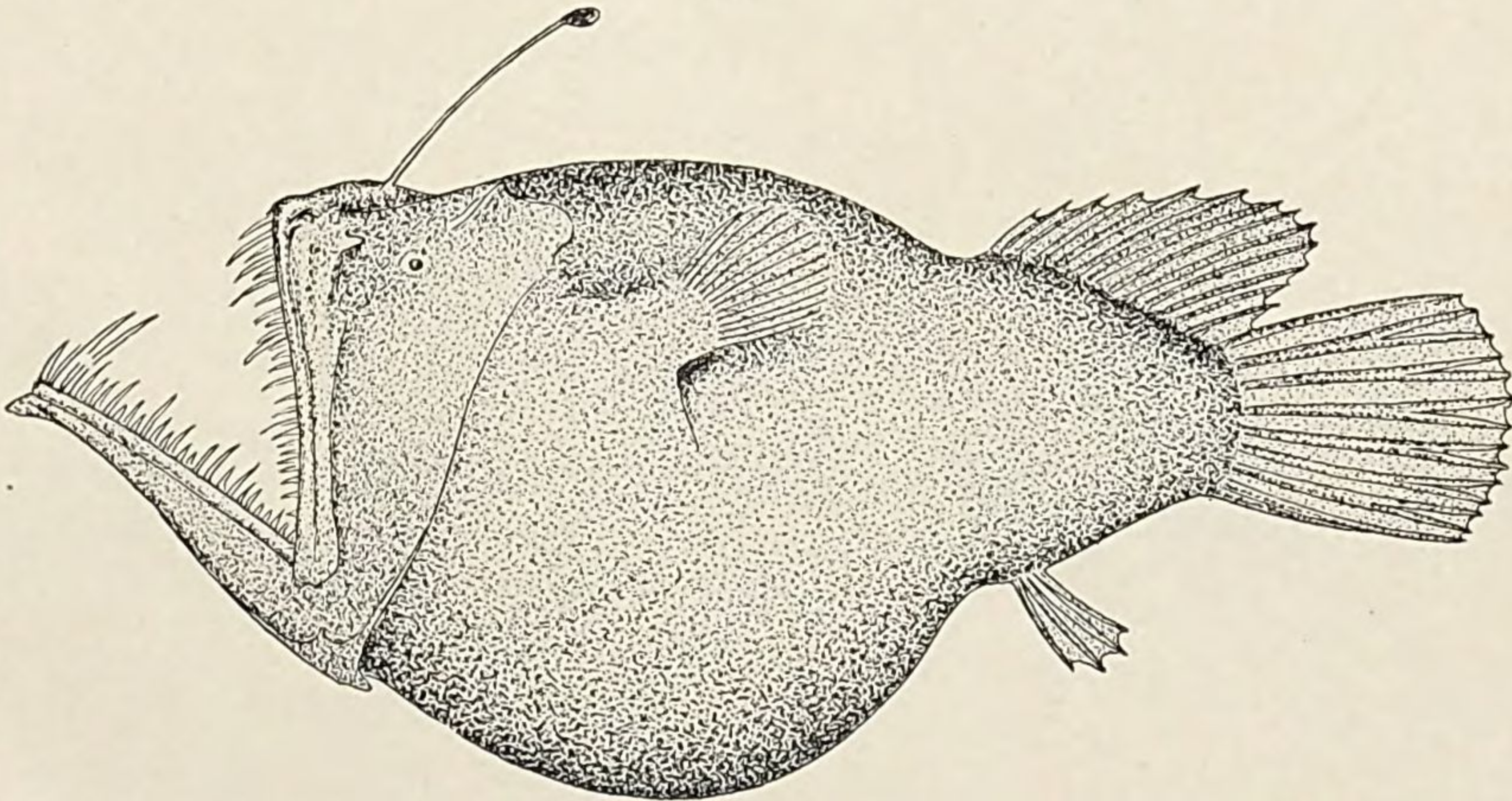
402. *CRYPTOPSARAS COUESII*. (p. 491.)
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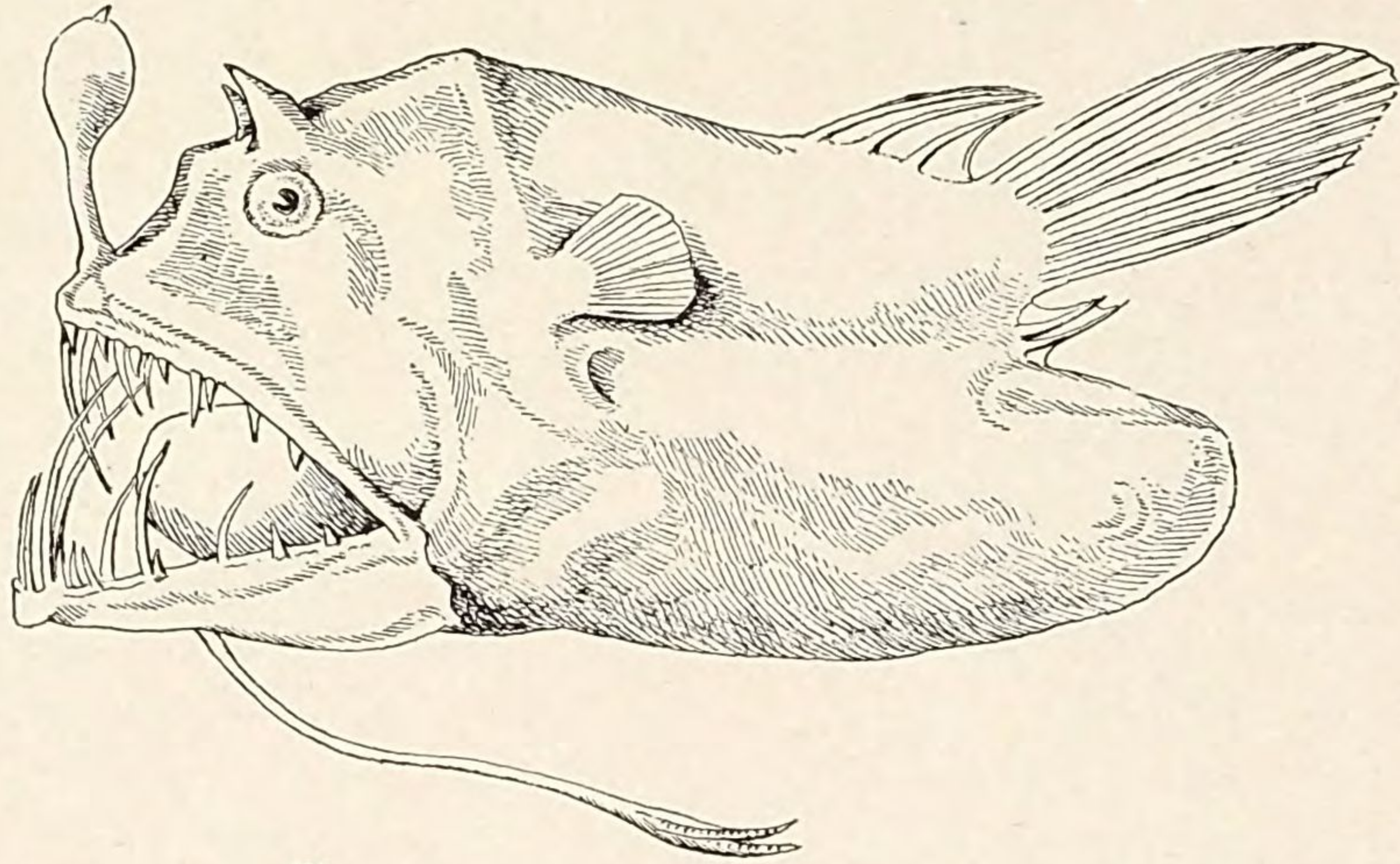
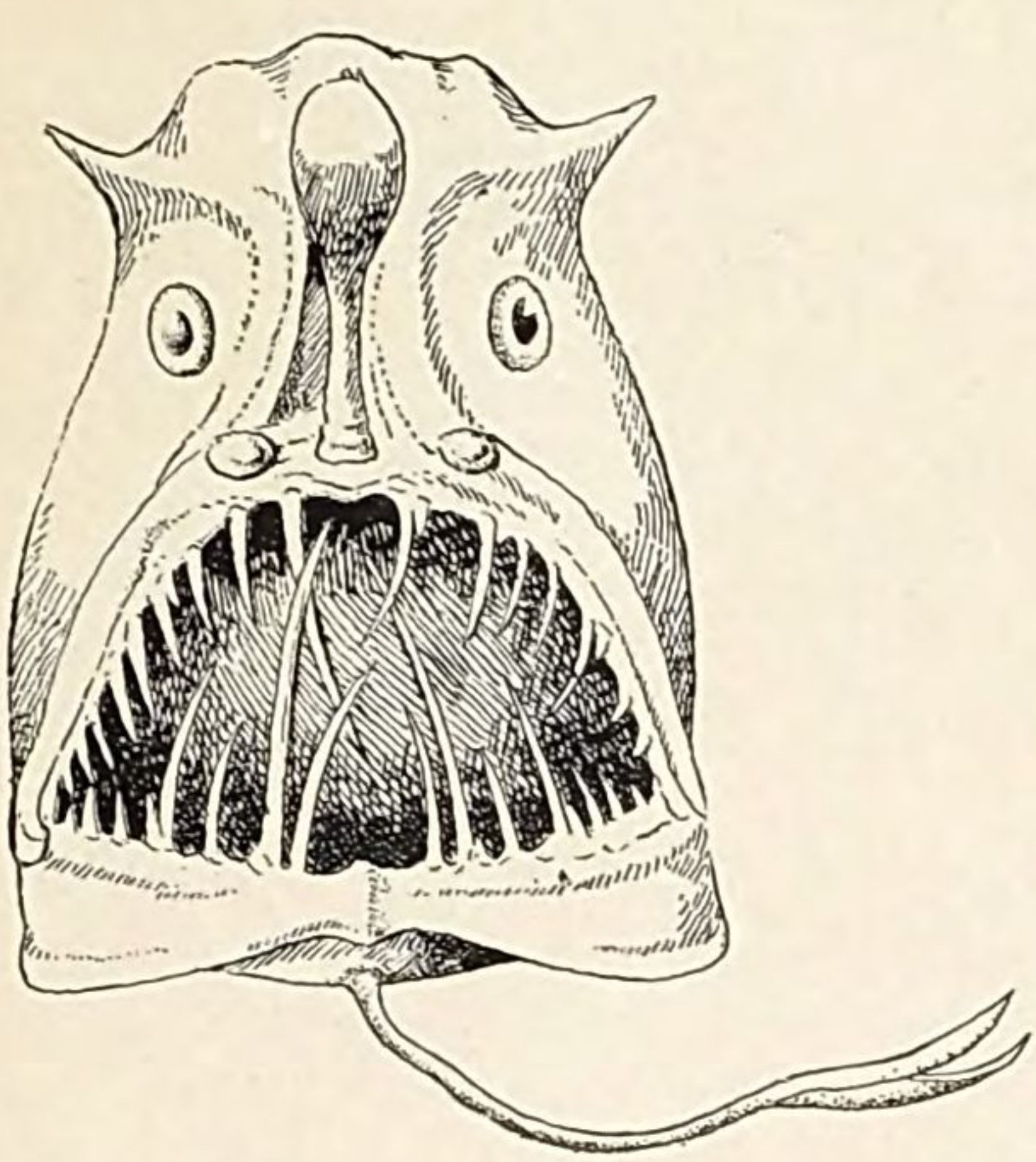


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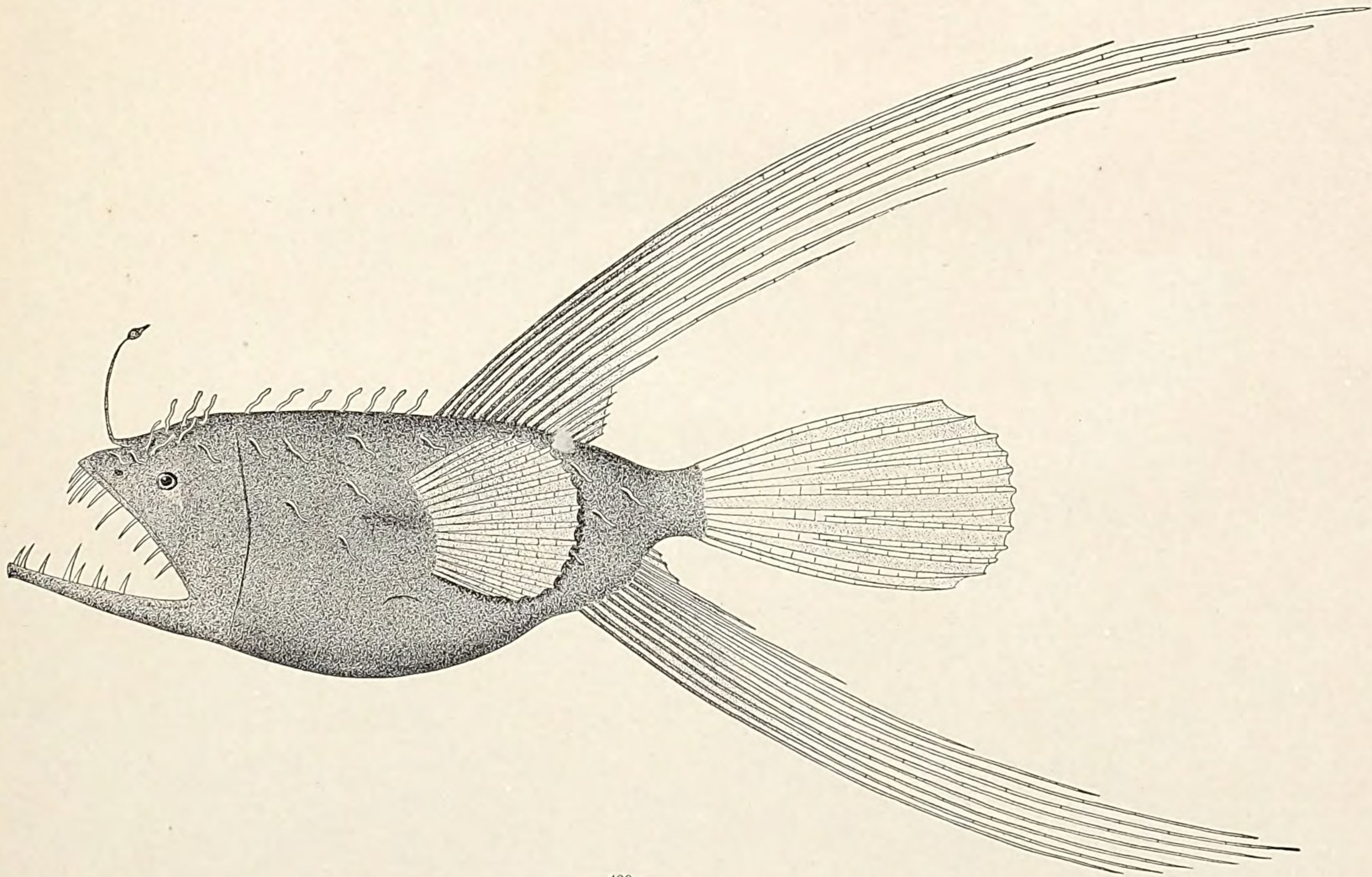


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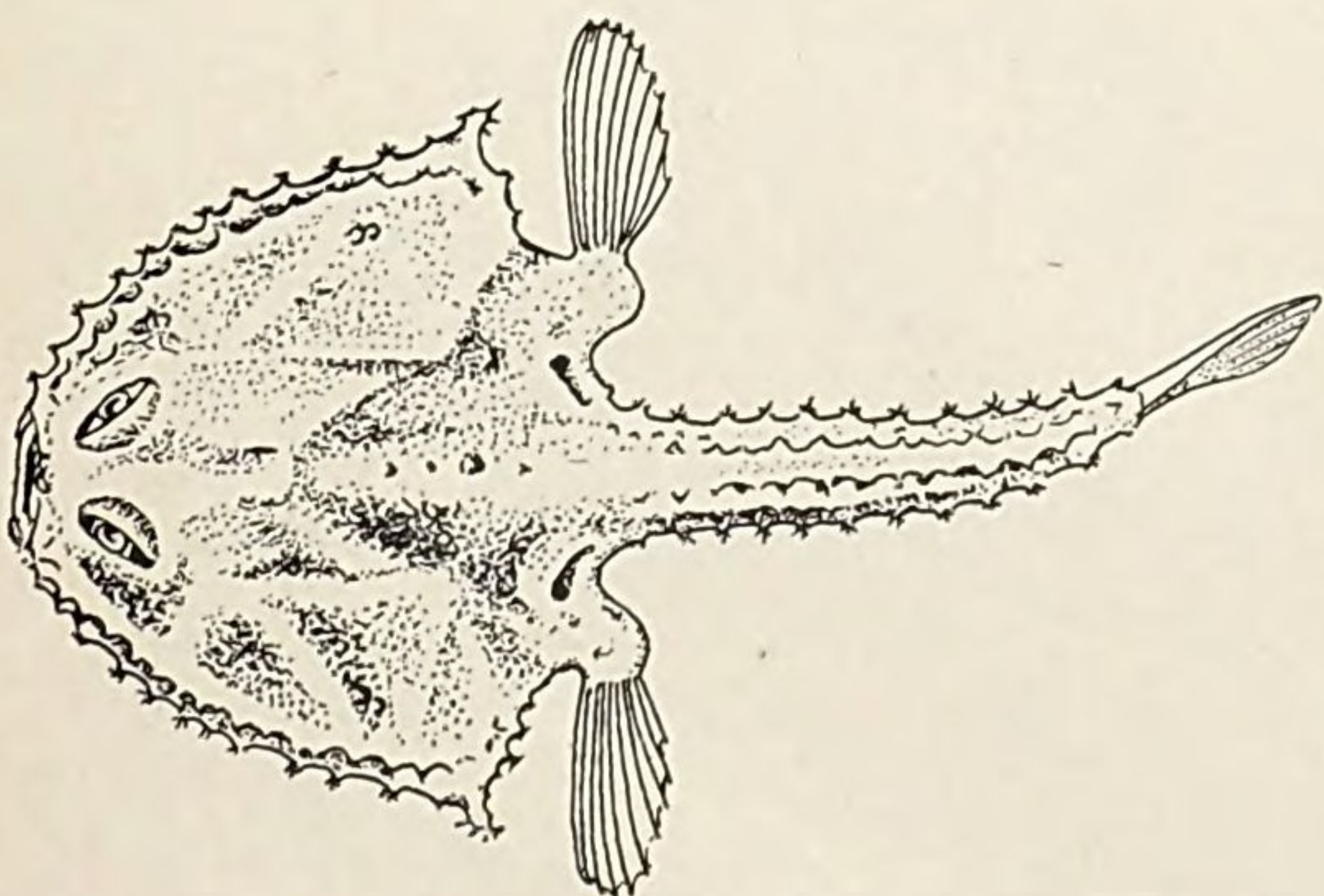
405. CORYNOLOPHUS REINHARDTII. (p. 494.)
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407. LIOCETUS MURRAYI. (p. 495.)



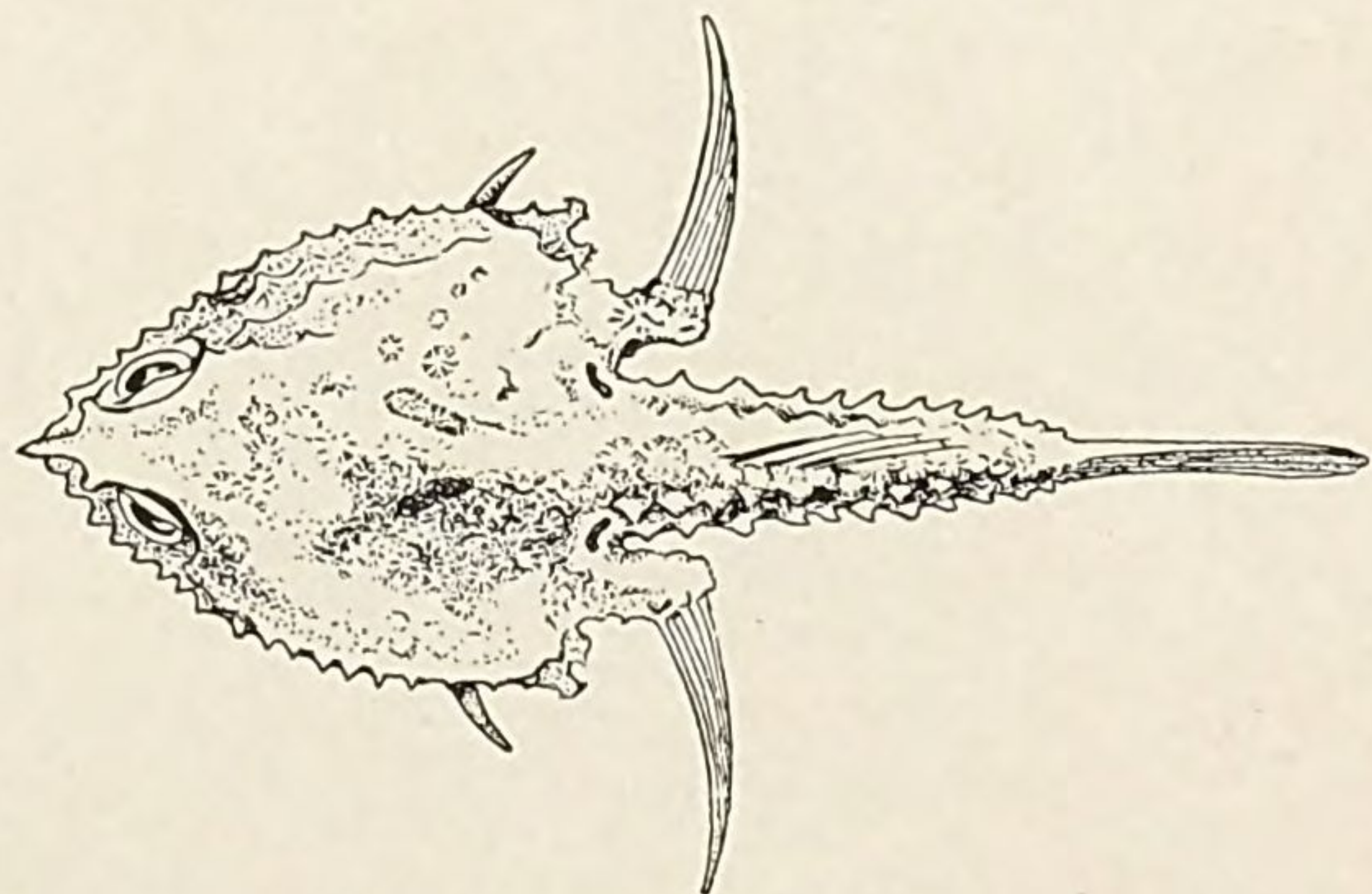
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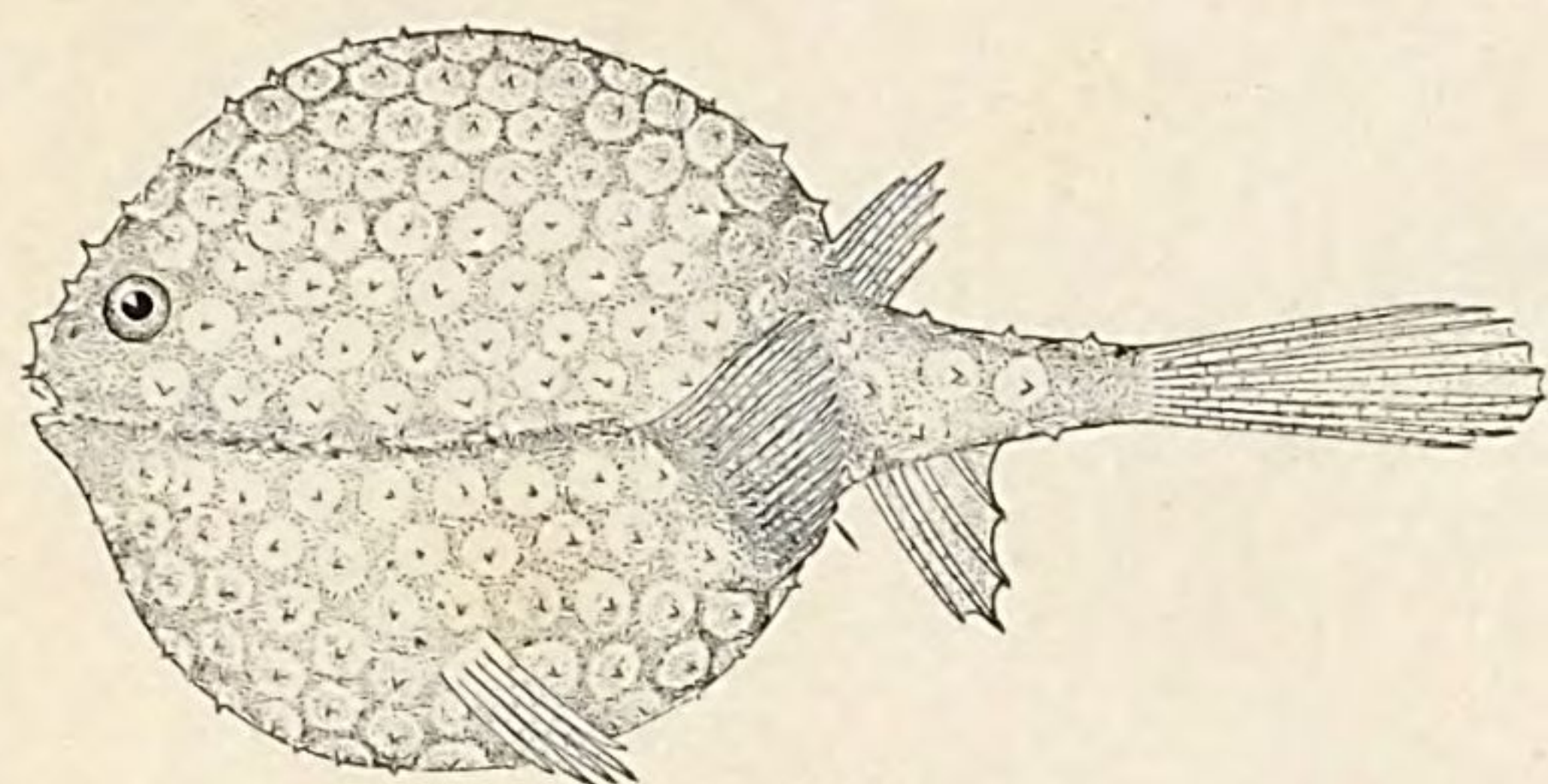
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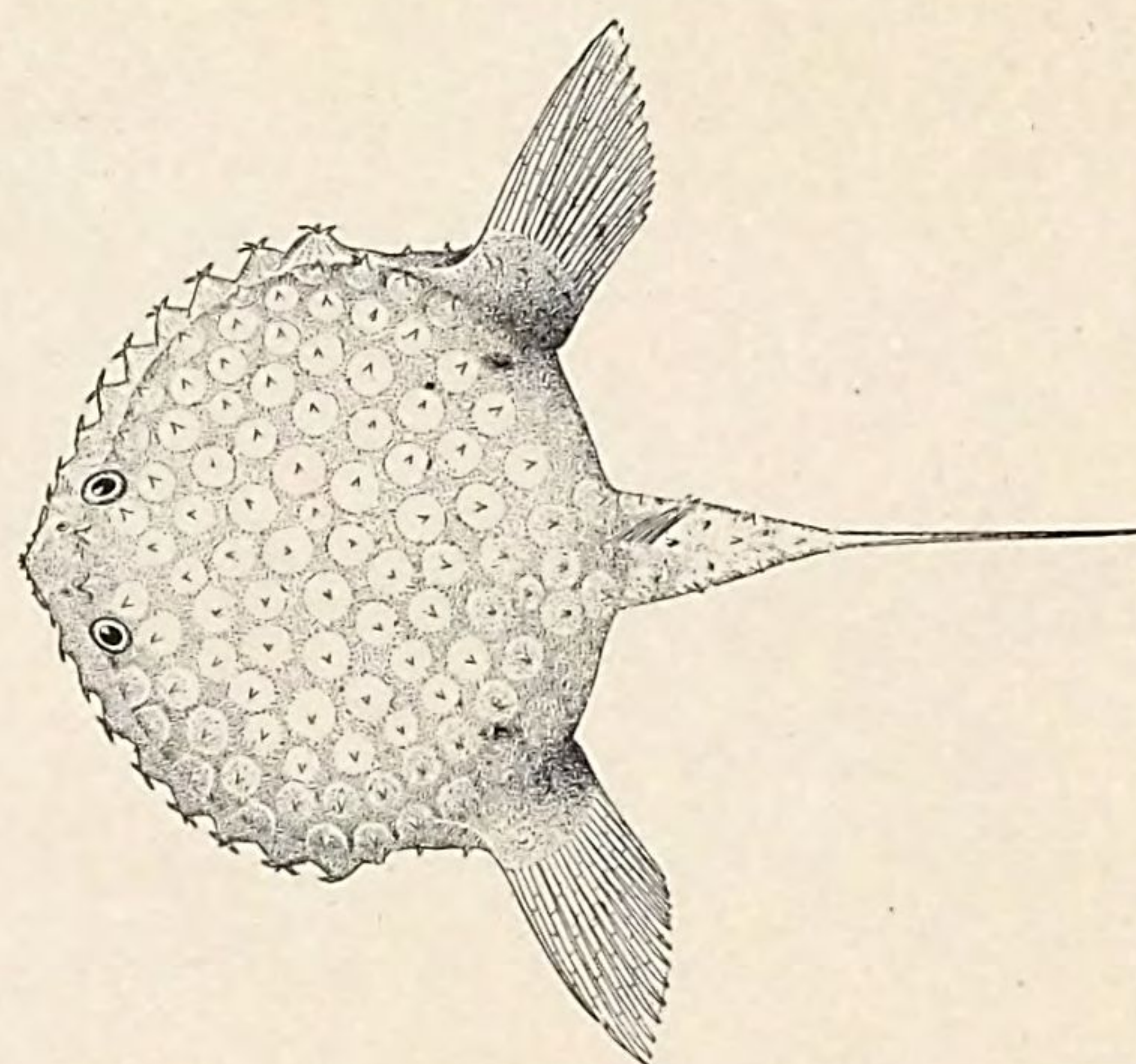
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408. LINOPHRYNE LUCIFER. (p. 496.)
410. HALIEUTÆA COCCINEA. (p. 500.)

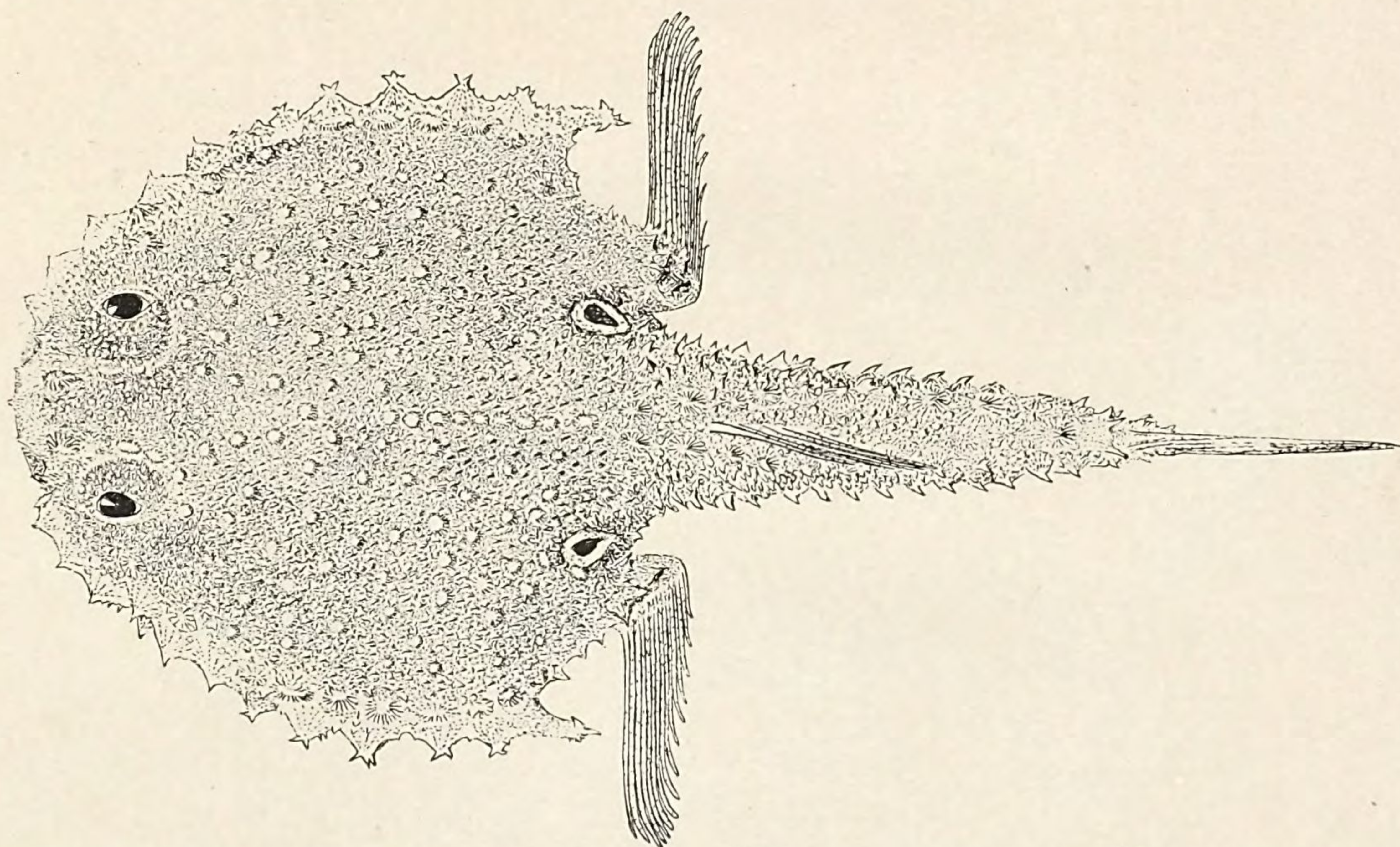
409. CAULOPHRYNE SETOSUS. (p. 496.)
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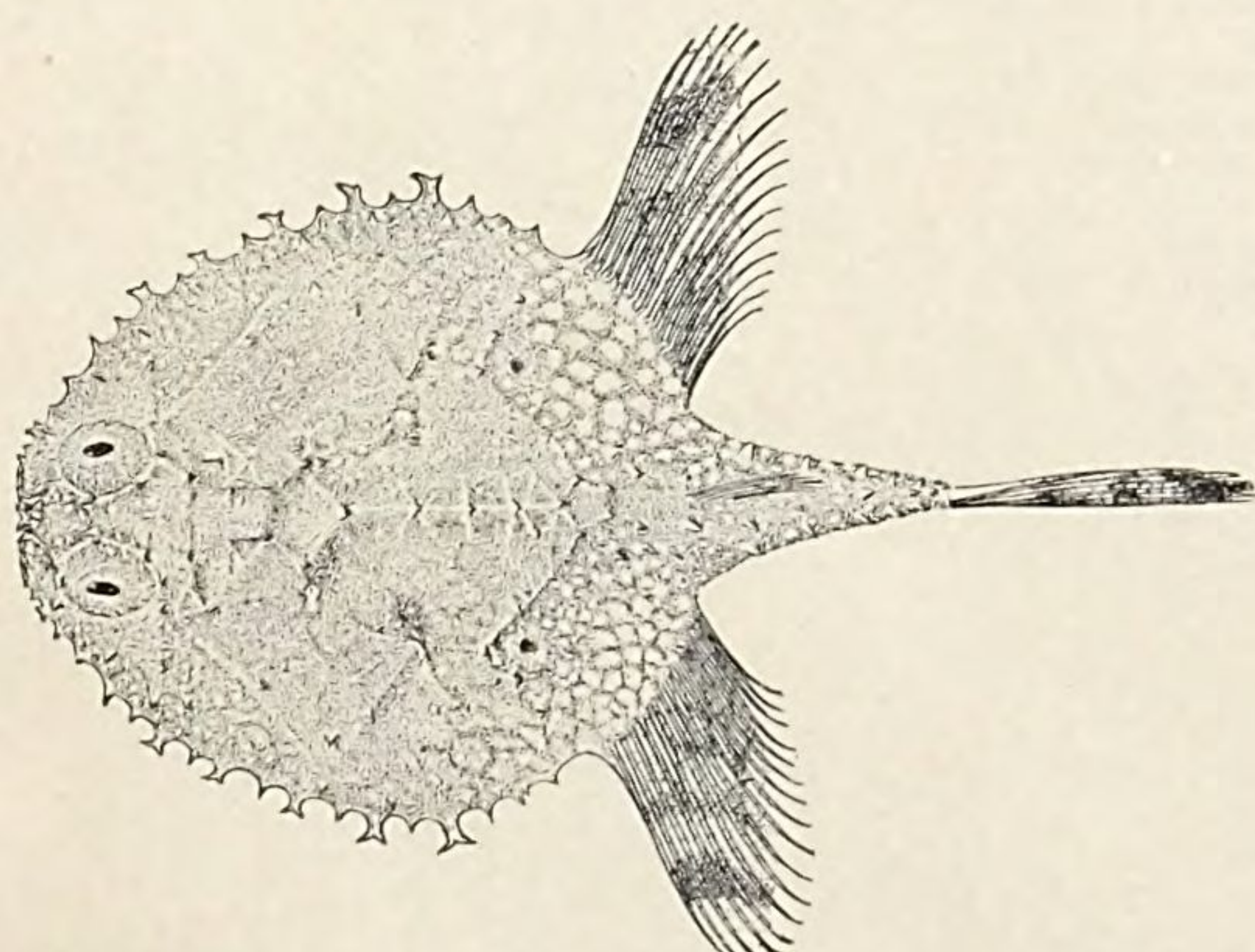
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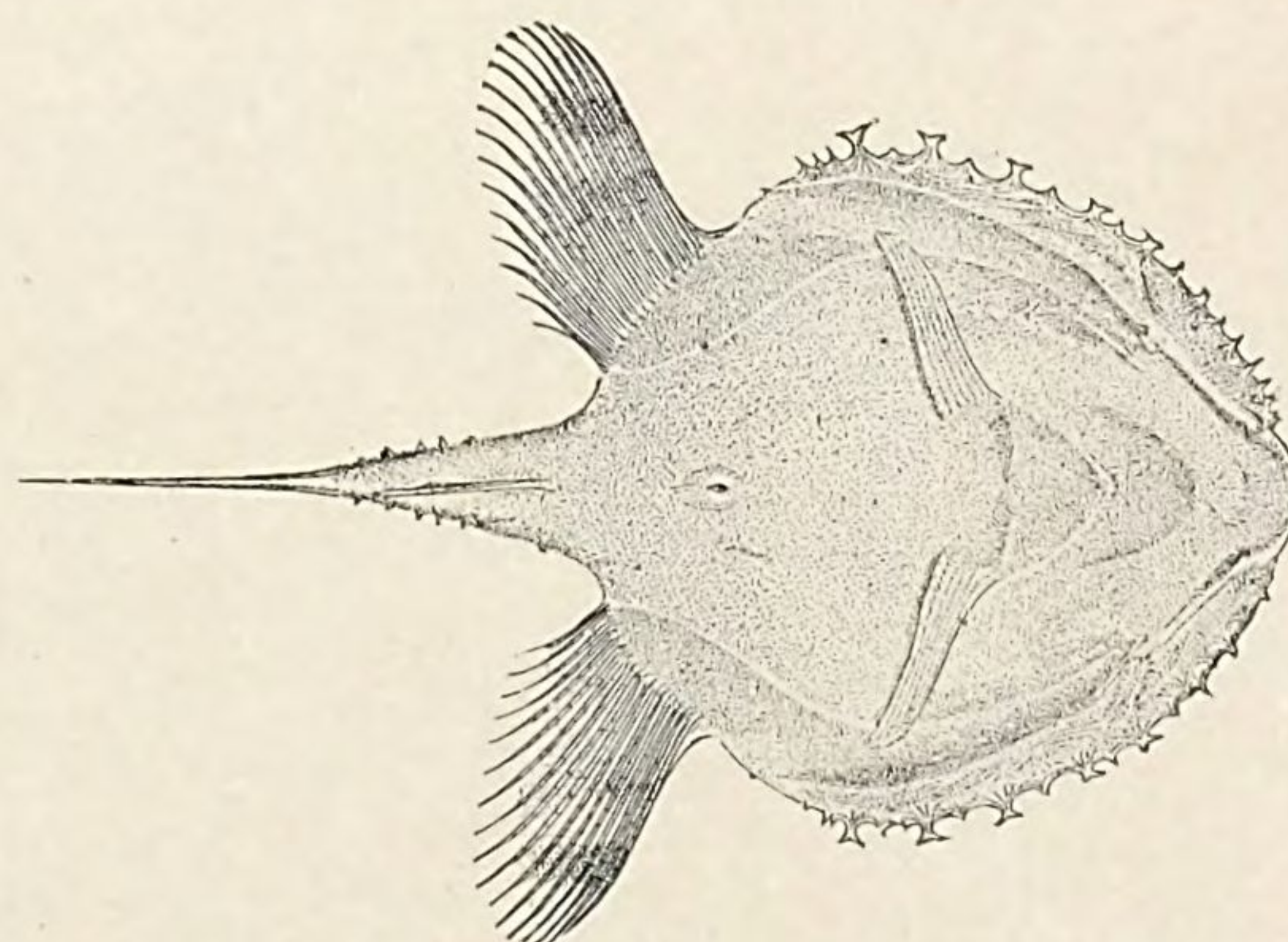
412b



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414a

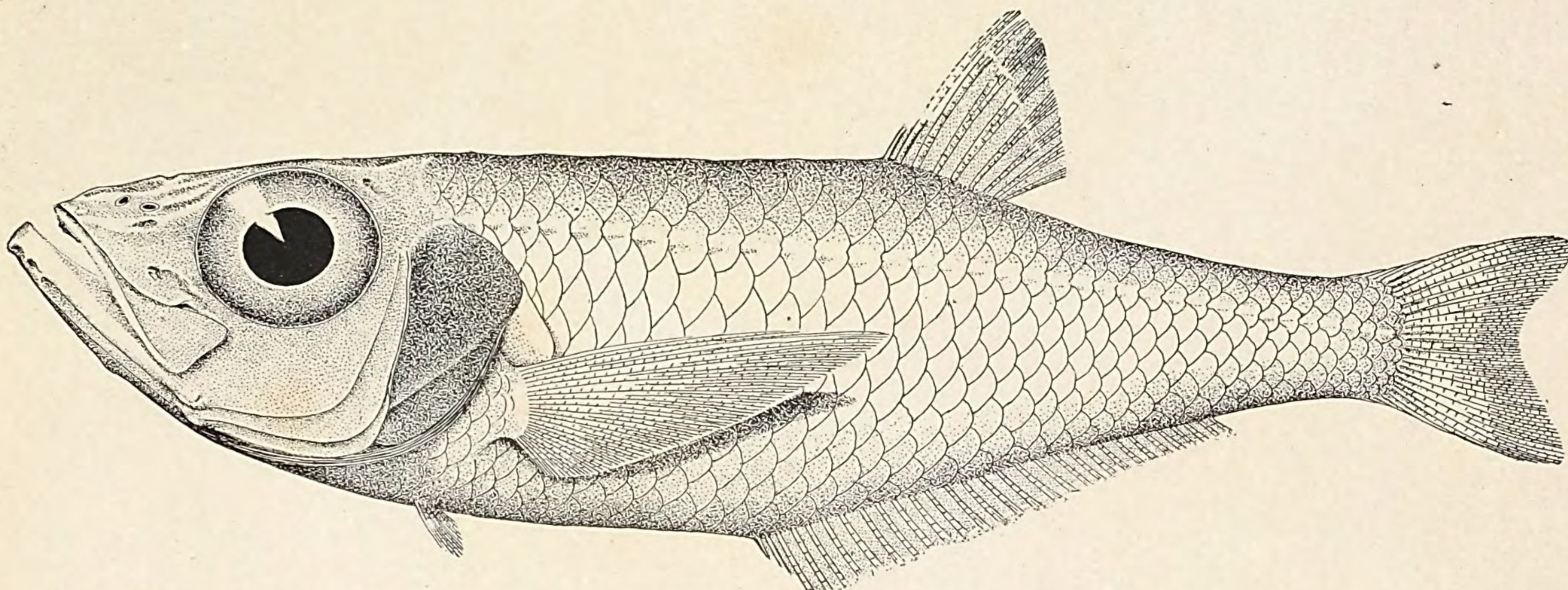


414b

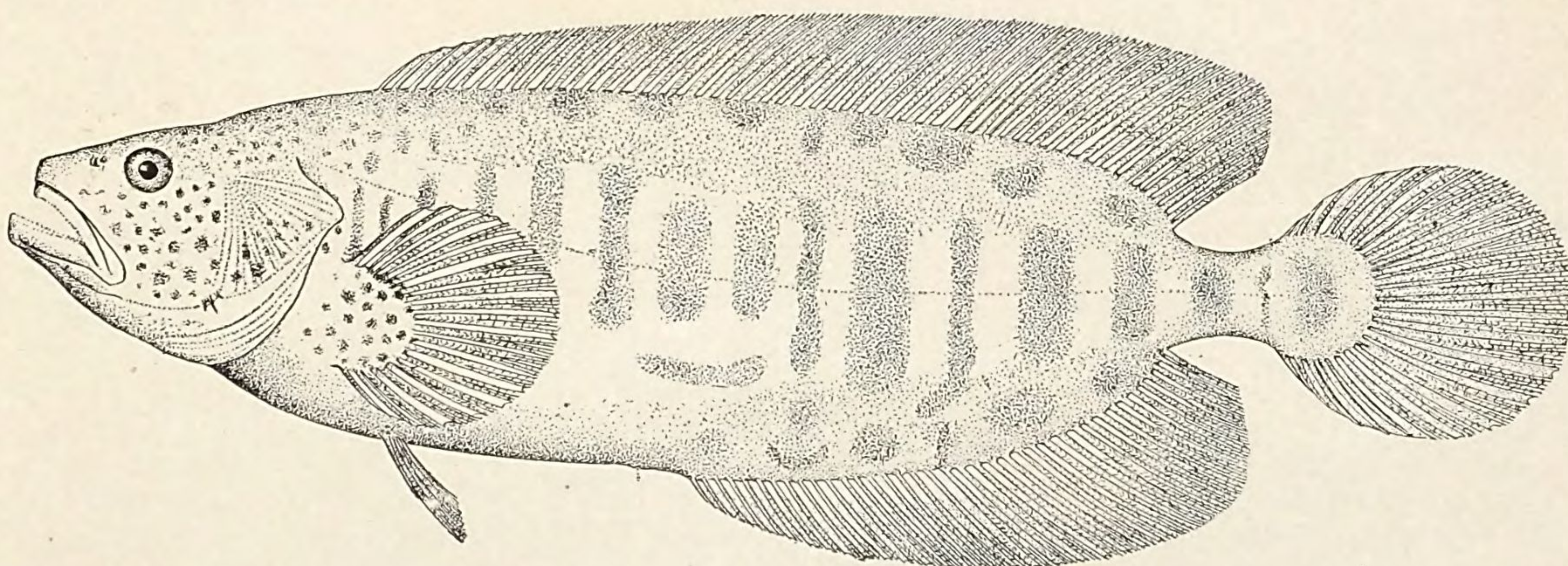
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413. *DIBRANCHIUS ATLANTICUS*. (p. 501.)

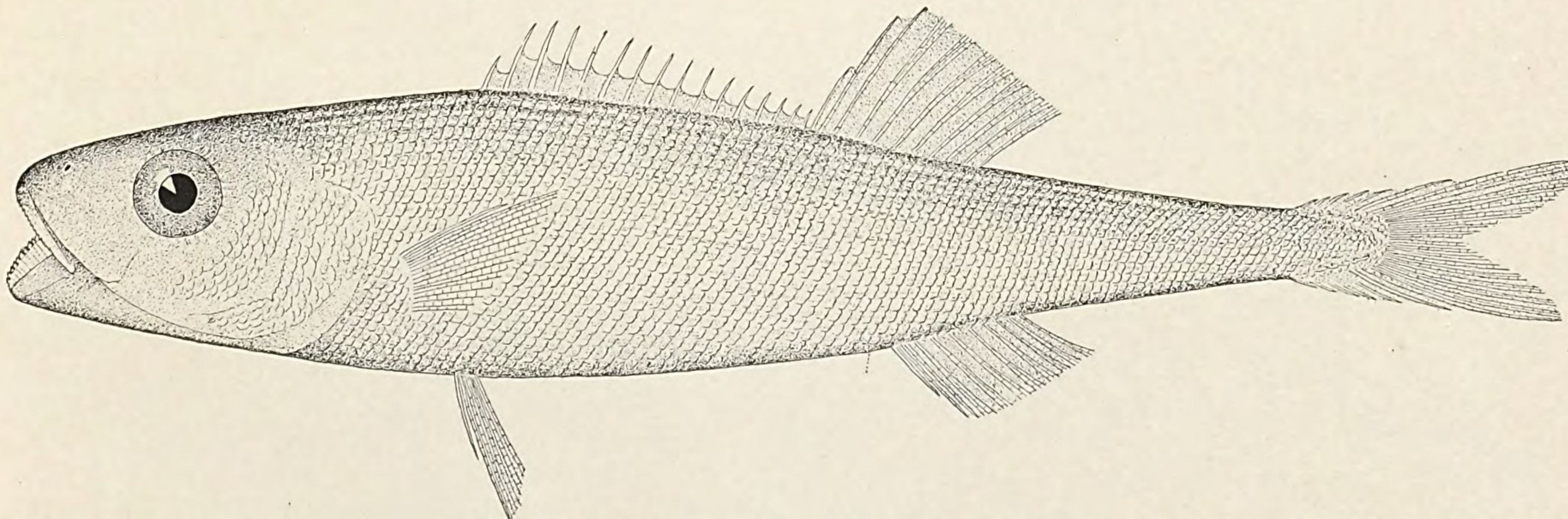
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416. SCHEDOPHILOPSIS SPINOSUS. (p. 216.)

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The following Publications of the Museum contain Reports on the Dredging Operations of the U. S. Coast Survey Steamer "Blake":—

BULLETIN, Vol. V., contains:—

- No. 1. Letter No. 1 to C. P. Patterson, Supt. U. S. Coast Survey, on the DREDGING OPERATIONS of the U. S. C. S. Str. "Blake." By A. AGASSIZ. pp. 9. April, 1878. 10c.
- No. 6. Letter No. 2 to C. P. Patterson, Supt. U. S. Coast Survey, on the DREDGING OPERATIONS of the U. S. C. S. Str. "Blake." By A. AGASSIZ. With Preliminary Report on the Mollusca of the Expedition. By W. H. DALL. pp. 10. 2 Plates. July, 1878. 20c.
- No. 8. I. Description of SOUNDING MACHINE, Water-Bottle, and Detacher. By Lieut.-Commander C. D. SIGSBEE, U. S. N. pp. 11. 5 Plates. December, 1878. 60c.
- No. 9. II. ECHINI, by A. AGASSIZ. CORALS and CRINOIDS, by L. F. DE POURTALES. OPHIURANS, by T. LYMAN. pp. 58. 10 Plates. December, 1878. \$1.50.
- No. 10. III. Report on HYDROIDA. By S. F. CLARKE. pp. 14. 5 Plates. January, 1879. 65c.
- No. 12. IV. Preliminary Report on the WORMS. By Prof. ERNST EHLERS of Göttingen. pp. 6. June, 1879. 5c.
- No. 14. Letter No. 3 to C. P. Patterson, Supt. U. S. Coast Survey, on the DREDGING OPERATIONS of the U. S. C. S. Str. "Blake." By A. AGASSIZ. pp. 14. 2 Maps. June, 1879. 35c.

BULLETIN, Vol. VI., contains:—

- No. 1. List of the DREDGING STATIONS occupied by the U. S. C. S. Steamers "Corwin," "Bibb," "Hassler," and "Blake," from 1867 to 1879. BENJAMIN PEIRCE and CARLILE P. PATTERSON, Superintendents of the U. S. Coast Survey. pp. 16. September, 1879.
- No. 3. V. General Conclusions from a Preliminary Examination of the MOLLUSCA. By W. H. DALL. pp. 9. February, 1880. 10c.
- No. 4. VI. Report on the CORALS and ANTIPATHARIA. By L. F. DE POURTALES. pp. 26. 3 Plates. February, 1880. 55c.
- No. 8. Letter No. 4 to C. P. Patterson, Supt. U. S. Coast Survey, on the DREDGING OPERATIONS of the U. S. C. S. Str. "Blake," Commander Bartlett, U. S. N., during the Summer of 1880. By A. AGASSIZ. pp. 8. September, 1880. 10c.
- No. 9. VII. Description of a GRAVITATING TRAP for obtaining Specimens of Animal Life from intermedial Ocean Depths. By Lieut.-Commander C. D. SIGSBEE, U. S. N. pp. 4. 1 Plate. September, 1880. 15c.

BULLETIN, Vol. VIII., contains:—

- No. 1. VIII. Etudes préliminaires sur les CRUSTACES. Par A. MILNE-EDWARDS. 1^e Partie. pp. 68. 2 Plates. December, 1880. 90c.
- No. 2. IX. Preliminary Report on the ECHINI. By A. AGASSIZ. pp. 7. December, 1880. 5c.
- No. 4. List of DREDGING STATIONS occupied during the year 1880 by the U. S. C. S. Str. "Blake." pp. 4. February, 1881. 5c.
- No. 5. X. Report on the CEPHALOPODS and on some Additional Species dredged by the U. S. F. C. Str. "Fishhawk," during the Season of 1880. By A. E. VERRILL. pp. 17. 8 Plates. March, 1881. \$1.00.
- No. 7. XI. Report on the ACALEPHÆ. By J. W. FEWKES. pp. 14. 4 Plates. March, 1881. 50c.
- No. 11. XII. Report on the SELACHIANS. By S. GARMAN. pp. 8. March, 1881. 5c.
- No. 12. XIII. Report on the PYCNOGONIDA. By E. B. WILSON. pp. 18. 5 Plates. March, 1881. 65c.

BULLETIN, Vol. IX., contains:—

- No. 1. XIV. Description sommaire des Espèces nouvelles D'ASTERIES. Par E. PERRIER. pp. 31. June, 1881. 30c.
- No. 2. XV. Preliminary Report on the MOLLUSCA. By W. H. DALL. pp. 112. December, 1881. \$1.00.
- No. 3. Letter No. 5 to C. P. Patterson, Supt. U. S. Coast Survey, on the EXPLORATIONS in the Vicinity of the Tortugas, during March and April, 1881. By A. AGASSIZ. pp. 5. July, 1881. 5c.
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BULLETIN, Vol. X., contains:—

- No. 1. XVII. Report on the CRUSTACEA. Part I. DECAPODA. By S. I. SMITH. pp. 108. 16 Plates. June, 1882. \$2.50.
- No. 4. XVIII. The STALKED CRINOIDS of the Caribbean Sea. By P. H. CARPENTER. pp. 16. December, 1882. 15c.
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- No. 6. XX. Report on the OPHIUROIDEA. By THEODORE LYMAN. pp. 50. 8 Plates. May, 1883. \$1.00.

BULLETIN, Vol. XI., contains:—

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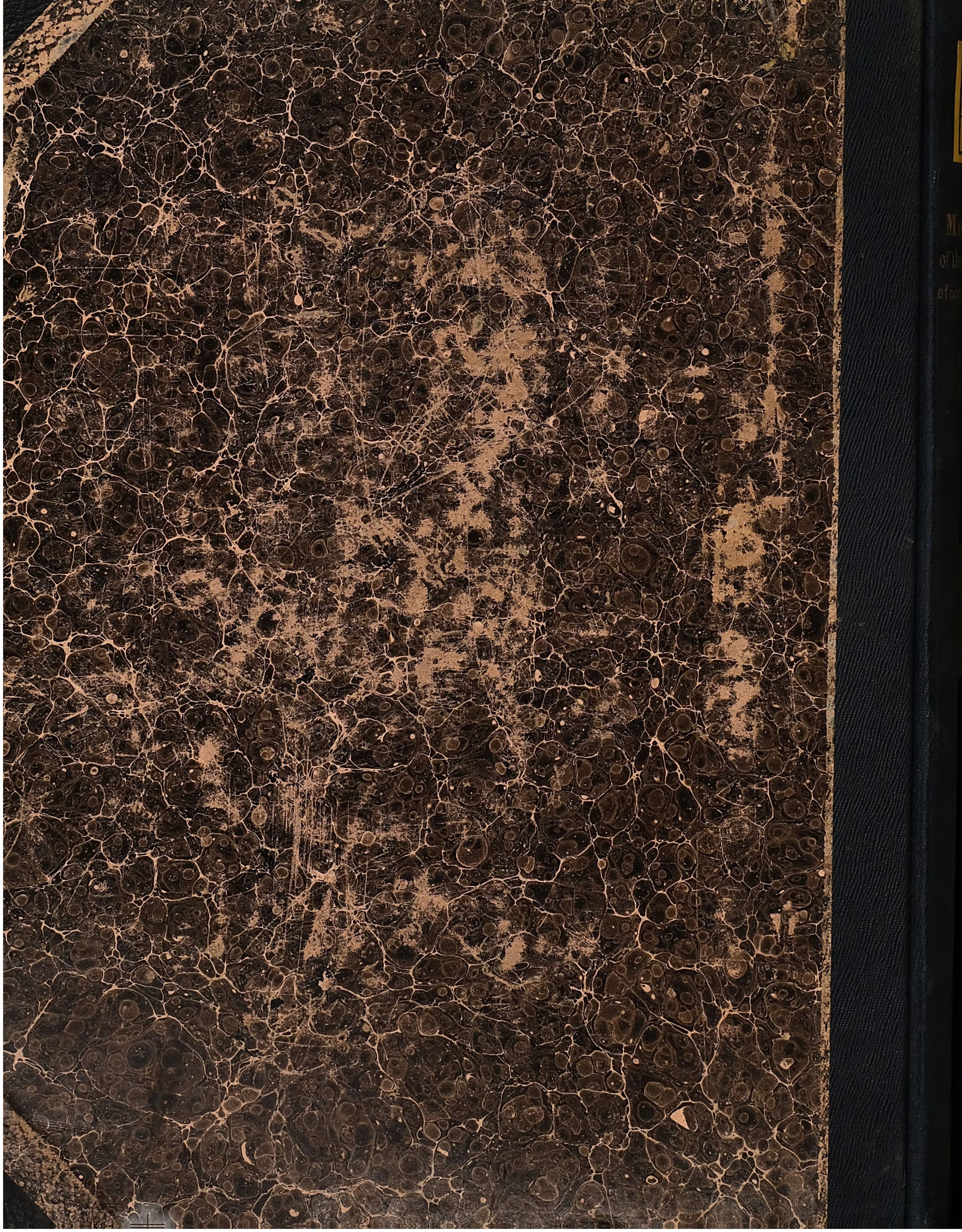
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ALEXANDER AGASSIZ, *Director.*



Bean, Tarleton H.

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